```
<220>
   <221> SITE
   <222> (153)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (154)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (155)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
Ū
   <222> (156)
   <223> n equals a,t,g, or c
<220>
   <221> SITE
<222> (157)
   <223> n equals a,t,g, or c
<220>
   <221> SITE
<222> (158)
   <223> n equals a,t,g, or c
<220>
   <221> SITE
   <222> (159)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (160)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (161)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (162)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (163)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (164)
   <223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (165)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (166)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (167)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
CACIETICS CORP
    <222> (168)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (169)
    <223> n equals a,t,g, or c
N
    <220>
Ξ
<221> SITE
    <222> (170)
    <223> n equals a,t,g, or c
ī
    <220>
    <221> SITE
    <222> (171)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (172)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (173)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (174)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (175)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (176)
    <223> n equals a,t,g, or c
    <220>
```

```
Ū
U
≘
ΠIJ
```

```
<221> SITE
<222> (177)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (178)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (180)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (181)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (182)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (183)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (184)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (185)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (186)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (187)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (188)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
面
```

```
<222> (189)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (190)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (191)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (192)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (193)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (194)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (195)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (196)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (197)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (198)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (199)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (200)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (201)
```

```
<223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (202)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (203)
   <223> n equals a,t,g, or c
   <220>
    <221> SITE
    <222> (204)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (205)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (206)
    <223> n equals a,t,g, or c
3
    <220>
    <221> SITE
    <222> (207)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (208)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (209)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (210)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (211)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (212)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (213)
    <223> n equals a,t,g, or c
```

```
<220>
   <221> SITE
   <222> (214)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (215)
   <223> n equals a,t,g, or c
   <220>
    <221> SITE
    <222> (216)
    <223> n equals a,t,g, or c
   <220>
   <221> SITE
    <222> (217)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (218)
    <223> n equals a,t,g, or c
    <220>
<221> SITE
    <222> (219)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (220)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (221)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (222)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (223)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (224)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (225)
    <223> n equals a,t,g, or c
```

```
J
ð
N
=
Q
```

```
<220>
<221> SITE
<222> (226)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (227)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (229)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (230)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (231)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (232)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (233)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (234)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (235)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (236)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (237)
<223> n equals a,t,g, or c
<220>
```

```
<221> SITE
    <222> (238)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (239)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (240)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (241)
<223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (242)
    <223> n equals a,t,g, or c
N
    <220>
    <221> SITE
5
    <222> (243)
    <223> n equals a,t,g, or c
O
<220>
N
    <221> SITE
<222> (244)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (245)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (246)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (247)
    <223> n equals a,t,g, or c
   <220>
    <221> SITE
    <222> (248)
    <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (249)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
```

```
ū
N
3
```

```
<222> (250)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (251)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (252)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (253)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (254)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (255)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (256)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (257)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (258)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (259)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (260)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (261)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (262)
```

```
19950082.091201
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (263)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (264)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (265)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (267)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (268)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (269)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (270)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (271)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (272)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (273)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (274)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (275)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (276)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (277)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
╝
    <222> (278)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
ŭ
    <222> (279)
N
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
J
    <222> (280)
    <223> n equals a,t,g, or c
Ŋ
    <220>
    <221> SITE
    <222> (281)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (282)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (283)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (284)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (285)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (286)
    <223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (287)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (288)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (289)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (290)
Q
    <223> n equals a,t,g, or c
ŲTI
    <220>
<221> SITE
    <222> (291)
ū
    <223> n equals a,t,g, or c
N
    <220>
    <221> SITE
<222> (292)
    <223> n equals a,t,g, or c
1
N
    <220>
<221> SITE
    <222> (293)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (294)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (295)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (296)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (297)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (298)
    <223> n equals a,t,g, or c
    <220>
```

```
N
Ħ
Q
.
NJ
```

```
<221> SITE
<222> (299)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (300)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (301)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (302)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (303)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (304)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3943)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3944)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3945)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3946)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3947)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3948)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
<222> (3949)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3950)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3951)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3952)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3953)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3954)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3955)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3956)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3957)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3958)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3959)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3960)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3961)
```

```
D950082 . D91.201.
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3962)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3963)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3964)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3965)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3966)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3967)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3968)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3969)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3970)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3971)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3972)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3973)
<223> n equals a,t,g, or c
```

```
J
```

```
<220>
<221> SITE
<222> (3974)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3975)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3976)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3977)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3978)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3979)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3980)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3981)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3982)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3983)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3984)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3985)
<223> n equals a,t,g, or c
```

```
≒
N
```

```
<220>
<221> SITE
<222> (3986)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3987)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3988)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3989)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3990)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3991)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3992)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3993)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3994)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3995)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3996)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (3997)
<223> n equals a,t,g, or c
<220>
```

```
ΠJ
Ħ
Ū
NJ
```

```
<221> SITE
    <222> (3998)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (3999)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4000)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
   <222> (4001)
   <223> n equals a,t,g, or c
₽
   <220>
    <221> SITE
    <222> (4002)
    <223> n equals a,t,g, or c
   <220>
    <221> SITE
   <222> (4003)
    <223> n equals a,t,g, or c
   <220>
    <221> SITE
    <222> (4004)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4005)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4006)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4007)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4008)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4009)
    <223> n equals a,t,g, or c
   <220>
    <221> SITE
```

```
ū
O
=
Ð
느
```

```
<222> (4010)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4011)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4012)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4013)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4014)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4015)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4016)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4017)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4018)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4019)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4020)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4021)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4022)
```

```
N
Ū
ΠJ
```

```
<223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4023)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4024)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4025)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4026)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4027)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4028)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4029)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4030)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4031)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4032)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4033)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4034)
    <223> n equals a,t,g, or c
```

```
Uī
```

```
<220>
<221> SITE
<222> (4035)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4036)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4037)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4038)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4039)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4040)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4041)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4042)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4043)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4044)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4045)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4046)
<223> n equals a,t,g, or c
```

```
ū
UN
ű
T
```

```
<220>
<221> SITE
<222> (4047)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4048)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4049)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4050)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4051)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4052)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4053)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4054)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4055)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4056)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4057)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4058)
<223> n equals a,t,g, or c
<220>
```

```
5
Q
ΠJ
```

```
<221> SITE
<222> (4059)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4060)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4061)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4062)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4063)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4064)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4065)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4066)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4067)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4068)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4069)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4070)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
<222> (4071)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4072)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4073)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4074)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4075)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4076)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4077)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4078)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4079)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4080)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4081)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4082)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

<222> (4083)

```
<223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4084)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4085)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4086)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
ø
    <222> (4087)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4088)
    <223> n equals a,t,g, or c
Ξ
    <220>
Ū
    <221> SITE
    <222> (4089)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4090)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4091)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4092)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4093)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4094)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4095)
    <223> n equals a,t,g, or c
```

```
O
Ū
ΠJ
```

```
<220>
<221> SITE
<222> (4096)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4097)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4098)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4099)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4100)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4101)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4102)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4103)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4104)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4105)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4106)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4107)
<223> n equals a,t,g, or c
```

```
LΠ
Ğ
m
22
ŋ
ΠJ
ᆂ
```

<220>

```
<220>
    <221> SITE
    <222> (4108)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4109)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4110)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4111)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4112)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4113)
    <223> n equals a,t,g, or c
   <220>
<221> SITE
    <222> (4114)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4115)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4116)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4117)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4118)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4119)
    <223> n equals a,t,g, or c
```

```
J.
o
E
J
<u>ļ</u>
TU
```

```
<221> SITE
<222> (4120)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4121)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4122)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4123)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4124)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4125)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4126)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4127)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4128)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4129)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4130)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4131)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
<222> (4132)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4133)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4134)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4135)
    <223> n equals a,t,g, or c
₫
   <220>
   <221> SITE
   <222> (4136)
    <223> n equals a,t,g, or c
    <220>
ũ
    <221> SITE
    <222> (4137)
₽
    <223> n equals a,t,g, or c
ā
    <220>
    <221> SITE
N
    <222> (4138)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4139)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4140)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4141)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4142)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4143)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4144)
```

```
đ
=
I
```

```
<223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4145)
 <223> n equals a,t,g, or c
<220>
<221> SITE
 <222> (4146)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4147)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4148)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4149)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4150)
<223> n equals a,t,g, or c
<220>
<221> SITE
 <222> (4151)
 <223> n equals a,t,g, or c
<220>
<221> SITE
 <222> (4152)
<223> n equals a,t,g, or c
<220>
 <221> SITE
 <222> (4153)
 <223> n equals a,t,g, or c
<220>
 <221> SITE
 <222> (4154)
 <223> n equals a,t,g, or c
<220>
 <221> SITE
 <222> (4155)
 <223> n equals a,t,g, or c
<220>
<221> SITE
 <222> (4156)
 <223> n equals a,t,g, or c
```

```
rostosa. Sec
```

```
<220>
<221> SITE
<222> (4157)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4158)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4159)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4160)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4161)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4162)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4163)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4164)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4165)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4166)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4167)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4168)
<223> n equals a,t,g, or c
```

```
:
C
T.
```

```
<220>
<221> SITE
<222> (4169)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4170)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4171)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4172)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4173)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4174)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4175)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4176)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4177)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4178)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4179)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4180)
<223> n equals a,t,g, or c
<220>
```

```
4
I
```

```
<221> SITE
    <222> (4181)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4182)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4183)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4184)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4185)
    <223> n equals a,t,g, or c
Ü
    <220>
    <221> SITE
    <222> (4186)
    <223> n equals a,t,g, or c
   <220>
N
   <221> SITE
    <222> (4187)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4188)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4189)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4190)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4191)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4192)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
```

```
Ū
Õ
ū
```

```
<222> (4193)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4194)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4195)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4196)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4197)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4198)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4199)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4200)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4201)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4202)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4203)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4204)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4205)
```

```
ossoner .cszcz
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4206)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4207)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4208)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4209)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4210)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4211)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4212)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4213)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4214)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4215)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4216)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4217)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (4218)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4219)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4220)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4221)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4222)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4223)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4224)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4225)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4226)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4227)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4228)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4229)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4230)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4231)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4232)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4233)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4234)
D
    <223> n equals a,t,g, or c
ΠŲ
    <220>
    <221> SITE
    <222> (4235)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4236)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4237)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4238)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4239)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4240)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4241)
    <223> n equals a,t,g, or c
    <220>
```

```
Ф
O
N
=
I
T.
```

```
<221> SITE
<222> (4242)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4243)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4244)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4245)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4246)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4247)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4248)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4249)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4250)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4251)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4252)
<223> n equals a,t;g, or c
<220>
<221> SITE
<222> (4253)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
ossiose .csleol
```

```
<222> (4254)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4255)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4256)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4257)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4258)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4259)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4260)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4261)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4262)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4263)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4264)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4265)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4266)
```

```
<223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (4267)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
    <222> (4268)
    <223> n equals a,t,g, or c
   <220>
    <221> SITE
    <222> (4269)
    <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (4270)
<223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4271)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4272)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4273)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4274)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4275)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4276)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4277)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4278)
    <223> n equals a,t,g, or c
```

```
<220>
   <221> SITE
   <222> (4279)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
   <222> (4280)
   <223> n equals a,t,g, or c
   <220>
   <221> SITE
    <222> (4281)
    <223> n equals a,t,g, or c
   <220>
   <221> SITE
Ū
   <222> (4282)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4283)
    <223> n equals a,t,g, or c
    <220>
<221> SITE
<222> (4284)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4285)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4286)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4287)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4288)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4289)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4290)
    <223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (4291)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4292)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4293)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4294)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4295)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4296)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4297)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4298)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4299)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4300)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4301)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4302)
<223> n equals a,t,g, or c
<220>
```

```
<221> SITE
    <222> (4303)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4304)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4305)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4306)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4307)
    <223> n equals a,t,g, or c
ā
    <220>
    <221> SITE
Ħ
    <222> (4308)
   <223> n equals a,t,g, or c
Ū
   <220>
   <221> SITE
    <222> (4309)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4310)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4311)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4312)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4313)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4314)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
```

```
ossoor..cs.zcl
```

```
<222> (4315)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4316)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4317)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4318)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4319)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4320)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4321)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4322)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4323)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4324)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4325)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4326)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4327)
```

```
Descoer of Edi
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4328)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4329)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4330)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4331)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4332)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4333)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4334)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4335)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4336)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4337)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4338)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4339)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4340)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4341)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4342)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4343)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4344)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4345)
    <223> n equals a,t,g, or c
N
    <220>
    <221> SITE
    <222> (4346)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4347)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4348)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4349)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4350)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4351)
    <223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4352)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4353)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4354)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4355)
    <223> n equals a,t,g, or c
Ū
<220>
    <221> SITE
    <222> (4356)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4357)
    <223> n equals a,t,g, or c
īŲ
    <220>
    <221> SITE
    <222> (4358)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4359)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4360)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4361)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4362)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4363)
    <223> n equals a,t,g, or c
    <220>
```

```
J
ΠJ
```

```
<221> SITE
<222> (4364)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4365)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4366)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4367)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4368)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4369)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4370)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4371)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4372)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4373)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4374)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4375)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
Ö
a
C
```

```
<222> (4376)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (4377)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (4378)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (4379)
  <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4380)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4381)
  <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4382)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
 <222> (4383)
^{*} <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (4384)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (4385)
  <223> n equals a,t,g, or c
  <220>
  <221> SITE
  <222> (4386)
  <223> n equals a,t,g, or c
 <220>
  <221> SITE
  <222> (4387)
  <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4388)
```

```
OSSIOSE OSIEDI
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4389)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4390)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4391)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4392)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4393)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4394)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4395)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4396)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4397)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4398)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4399)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4400)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (4401)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4402)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4403)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4404)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4405)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4406)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4407)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4408)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4409)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4410)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4411)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4412)
<223> n equals a,t,g, or c
```

```
NJ
```

```
<220>
<221> SITE
<222> (4413)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4414)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4415)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4416)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4417)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4418)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4419)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4420)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4421)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4422)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4423)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4424)
<223> n equals a,t,g, or c
<220>
```

```
Ū
=
'n
```

```
<221> SITE
<222> (4425)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4426)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4427)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4428)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4429)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4430)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4431)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4432)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4433)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4434)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4435)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4436)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
J
Ŋ
```

```
<222> (4437)
 <223> n equals a,t,g, or c
 <220>
<221> SITE
 <222> (4438)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4439)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4440)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4441)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4442)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4443)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4444)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4445)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4446)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4447)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4448)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (4449)
```

```
Q
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4450)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4451)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4452)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4453)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4454)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4455)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4456)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4457)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4458)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4459)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4460)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4461)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4462)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4463)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4464)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4465)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4466)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
   <222> (4467)
    <223> n equals a,t,g, or c
ΠJ
    <220>
    <221> SITE
    <222> (4468)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4469)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4470)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4471)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4472)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4473)
    <223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (4474)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4475)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4476)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4477)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4478)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4479)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4480)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4481)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4482)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4483)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4484)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4485)
<223> n equals a,t,g, or c
<220>
```

```
<221> SITE
    <222> (4486)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4487)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4488)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4489)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4490)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
<222> (4491)
    <223> n equals a,t,g, or c
    <220>
T.
    <221> SITE
    <222> (4492)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4493)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4494)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4495)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4496)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4497)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
```

```
<222> (4498)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4499)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4500)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4501)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4502)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4503)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4504)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4505)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4506)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4507)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4508)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4509)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4510)
```

```
HOWLDOWN TOULD
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4511)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4512)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4513)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4514)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4515)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4516)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4517)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4518)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4519)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4520)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4521)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4522)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (4523)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4524)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4525)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4526)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4527)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4528)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4529)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4530)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4531)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4532)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4533)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4534)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4535)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4536)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4537)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4538)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4539)
    <223> n equals a,t,g, or c
ũ
    <220>
    <221> SITE
    <222> (4540)
    <223> n equals a,t,g, or c
TJ
    <220>
    <221> SITE
    <222> (4541)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4542)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4543)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4544)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4545)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4546)
    <223> n equals a,t,g, or c
    <220>
```

```
<221> SITE
    <222> (4547)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4548)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4549)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4550)
    <223> n equals a,t,g, or c
Q
Ф
    <220>
M
    <221> SITE
    <222> (4551)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
3
    <222> (4552)
    <223> n equals a,t,g, or c
Ī
<220>
N
   <221> SITE
    <222> (4553)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4554)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4555)
 <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4556)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4557)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4558)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
```

```
Dosmons, narcol
```

```
<222> (4559)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4560)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4561)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4562)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4563)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4564)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4565)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4566)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4567)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4568)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4569)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4570)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4571)
```

```
IJVICIAM OVANOL
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4572)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4573)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4574)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4575)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4576)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4577)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4578)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4579)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4580)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4581)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4582)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4583)
```

<223> n equals a,t,g, or c

```
nggsolas .ngleol
```

```
<220>
<221> SITE
<222> (4584)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4585)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4586)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4587)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4588)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4589)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4590)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4591)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4592)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4593)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4594)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4595)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4596)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4597)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4598)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
   <222> (4599)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4600)
    <223> n equals a,t,g, or c
N
    <220>
3
    <221> SITE
    <222> (4601)
    <223> n equals a,t,g, or c
N
    <220>
<221> SITE
    <222> (4602)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4603)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4604)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4605)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4606)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4607)
    <223> n equals a,t,g, or c
    <220>
```

```
<221> SITE
    <222> (4608)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4609)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4610)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4611)
   <223> n equals a,t,g, or c
Q
   <220>
   <221> SITE
    <222> (4612)
    <223> n equals a,t,g, or c
ij
    <220>
    <221> SITE
    <222> (4613)
    <223> n equals a,t,g, or c
   <220>
    <221> SITE
    <222> (4614)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4615)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4616)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4617)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4618)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4619)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
```

```
<222> (4620)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4621)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4622)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4623)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4624)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4625)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4626)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4627)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4628)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4629)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4630)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4631)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4632)
```

```
ossoss.osteol
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4633)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4634)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4635)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4636)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4637)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4638)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4639)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4640)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4641)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4642)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4643)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4644)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4645)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4646)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4647)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4648)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4649)
    <223> n equals a,t,g, or c
    <220>
   <221> SITE
   <222> (4650)
    <223> n equals a,t,g, or c
N
    <220>
    <221> SITE
    <222> (4651)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4652)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4653)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4654)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4655)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4656)
    <223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4657)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4658)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4659)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4660)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4661)
    <223> n equals a,t,g, or c
TŲ
    <220>
3
    <221> SITE
    <222> (4662)
    <223> n equals a,t,g, or c
T
    <220>
    <221> SITE
    <222> (4663)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4664)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4665)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4666)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4667)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4668)
    <223> n equals a,t,g, or c
    <220>
```

```
Q
ā
```

```
<221> SITE
<222> (4669)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4670)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4671)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4672)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4673)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4674)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4675)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4676)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4677)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4678)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4679)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4680)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
COSSOORE, COLECT
```

```
<222> (4681)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4682)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4683)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4684)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4685)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4686)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4687)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4688)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4689)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4690)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4691)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4692)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4693)
```

```
N
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4694)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4695)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4696)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4697)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4698)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4699)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4700)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4701)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4702)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4703)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4704)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4705)
```

<223> n equals a,t,g, or c

```
L
ΠJ
```

```
<220>
<221> SITE
<222> (4706)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4707)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4708)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4709)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4710)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4711)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4712)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4713)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4714)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4715)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4716)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4717)
<223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4718)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4719)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4720)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
   <222> (4721)
    <223> n equals a,t,g, or c
IJ
    <220>
    <221> SITE
    <222> (4722)
    <223> n equals a,t,g, or c
Õ
N
    <220>
5
    <221> SITE
   <222> (4723)
    <223> n equals a,t,g, or c
N
    <220>
    <221> SITE
    <222> (4724)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4725)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4726)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4727)
   <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4728)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4729)
    <223> n equals a,t,g, or c
    <220>
```

```
<221> SITE
    <222> (4730)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4731)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4732)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4733)
    <223> n equals a,t,g, or c
Ū
Ð
    <220>
    <221> SITE
    <222> (4734)
    <223> n equals a,t,g, or c
ü
    <220>
    <221> SITE
Ħ
    <222> (4735)
<223> n equals a,t,g, or c
    <220>
N
   <221> SITE
    <222> (4736)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4737)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4738)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4739)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4740)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4741)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
```

```
COSTOOR OSTOS
```

```
<222> (4742)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4743)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4744)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4745)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4746)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4747)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4748)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4749)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4750)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4751)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4752)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4753)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4754)
```

```
T
Ü
Q
TU
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4755)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4756)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4757)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4758)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4759)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4760)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4761)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4762)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4763)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4764)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4765)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4766)
<223> n equals a,t,g, or c
```

```
<221> SITE
    <222> (4767)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4768)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4769)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4770)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4771)
    <223> n equals a,t,g, or c
8
    <220>
    <221> SITE
    <222> (4772)
    <223> n equals a,t,g, or c
TŲ
    <220>
    <221> SITE
    <222> (4773)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4774)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4775)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4776)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4777)
    <223> n equals a,t,g, or c
    <220>
```

<221> SITE <222> (4778)

<223> n equals a,t,g, or c

<220>

```
O
=
```

```
<220>
<221> SITE
<222> (4779)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4780)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4781)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4782)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4783)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4784)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4785)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4786)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4787)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4788)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4789)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4790)
<223> n equals a,t,g, or c
<220>
```

```
Ū
Ō
Ф
Ū
<u>|-</u>
T.J
```

```
<221> SITE
<222> (4791)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4792)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4793)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4794)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4795)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4796)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4797)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4798)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4799)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4800)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4801)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4802)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
Q
```

```
<222> (4803)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4804)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4805)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4806)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4807)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4808)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4809)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4810)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4811)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4812)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4813)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4814)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4815)
```

```
<223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4816)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4817)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4818)
    <223> n equals a,t,g, or c
    <220>
ű
    <221> SITE
    <222> (4819)
LT
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4820)
    <223> n equals a,t,g, or c
<220>
    <221> SITE
    <222> (4821)
    <223> n equals a,t,g, or c
TU
    <220>
    <221> SITE
    <222> (4822)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4823)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4824)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4825)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4826)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4827)
    <223> n equals a,t,g, or c
```

```
<220>
    <221> SITE
    <222> (4828)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4829)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4830)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4831)
    <223> n equals a,t,g, or c
q
Ų,
    <220>
    <221> SITE
    <222> (4832)
    <223> n equals a,t,g, or c
Ū
    <220>
    <221> SITE
    <222> (4833)
Ū
    <223> n equals a,t,g, or c
īŲ
    <220>
    <221> SITE
    <222> (4834)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4835)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4836)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4837)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4838)
    <223> n equals a,t,g, or c
    <220>
    <221> SITE
    <222> (4839)
    <223> n equals a,t,g, or c
```

```
ū
10
```

```
<220>
<221> SITE
<222> (4840)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4841)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4842)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4843)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4844)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4845)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4846)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4847)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4848)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4849)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4850)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4851)
<223> n equals a,t,g, or c
<220>
```

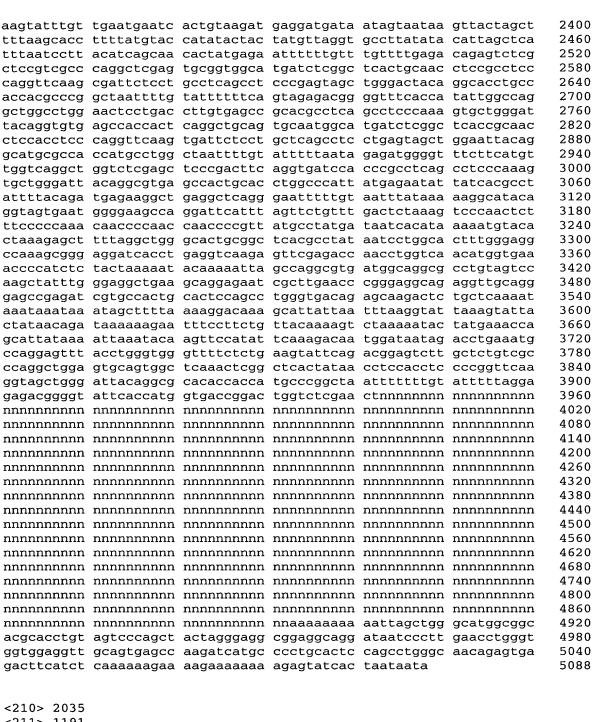
```
<221> SITE
<222> (4852)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4853)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4854)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4855)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4856)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4857)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4858)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4859)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4860)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4861)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4862)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4863)
<223> n equals a,t,g, or c
<220>
<221> SITE
```

```
O
TU
```

```
<222> (4864)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4865)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4866)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4867)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4868)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4869)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4870)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4871)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4872)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4873)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4874)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4875)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4876)
```

```
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4877)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4878)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4879)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4880)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4881)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4882)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4883)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4884)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4885)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4886)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4887)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4888)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (4889)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4890)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4891)
<223> n equals a,t,g, or c
<220>
<221> SITE
<222> (4892)
<223> n equals a,t,g, or c
<400> 2034
                                                               60
120
180
240
300
nnnntgagat agaateteae tetgttgeee aggetggggt geagtggtge gateteaget
                                                              360
ccccacaacc tctgcctcca gggttcaagc aattctcctg cctcagcctc ctgagtatct
                                                              420
gggattacag gcatgcacca ctacgcttgg ctaatttttg tatttttagt agagacgggg
                                                              480
tttcaccatg ttggccaggc tggtcttgaa ctcctgacct caggtgattc gcccgccttg
                                                              540
gcctcccaaa gtgctgggat tacaggcatg agccaccgtg cctggctgaa agttcatttt
                                                              600
caatagcata gtccagacca ttttttttct aaatgtgcta ccagaatcaa agaaataata
                                                              660
acattccatt aaaacaaata aaatggcatt aaattaaatg ttctgcataa tttaagagcc
                                                              720
ctgaccaatt ttagtctttt ttttttttt gagacagagt ctcactgtgt cgcccaggct
                                                              780
                                                              840
ggagtgcagt ggtacgatct tggctcactg cagcctccac ctcctgggtt caagtgattc
                                                              900
tcctgcctca acctcccgag cagctgggat tacaggcatg tgccaccata cctggctaat
                                                              960
ttttatatet ttagtagaga tggggtttea ceatgttgge caggetggte teaaaetett
                                                             1020
gacctcaggt gatctgcccg cctcggcctc ccaaagtgct ggcattacag gcatgagtca
ctgcgcctgg cctagtctat tattaacaaa taaaaatttt aatacataaa aatggatgga
                                                             1080
tattttctag agccttaatt aagtaattca ctccaaatgt ctttttttt tttttttta
                                                             1140
gctagtaagt ggagacactt tgaaacatgg tgcttaaaaa aaaacacact acctacctgg
                                                             1200
tgggctgttt catggtgaaa taacttattc tgtataattt gaatgcaatt cagatactat
                                                             1260
gtagatgtta aaaagctaag ttaacataaa atgtacatca tgaaacgtca ccttacttga
                                                             1320
cggcattaat acatttttc cactaaaata cttgtaacca tggccatcag tatgaagaaa
                                                             1380
aattttaaac acgatgaaag gtggaaacgt ttcacctcta aatctgaaat aaagataaaa
                                                             1440
atttagttat ttggcatcag gttttgggct cagttgcttt tcccccttat acttaagata
                                                             1500
gttcatatag tttcttgcat acagggtaaa ggctatgtca gagcatgtaa agaactggta
                                                             1560
atgaaatgga tcacatagga tgtaagaccc acactttggt gtactcacaa ctattctcat
                                                             1620
acctgtgtaa gactgaatac agaatgggag atgagagcta ctctcatggc aacttttagc
                                                             1680
cacagagtca tgcctcggtt tctttacata acaaatgtaa ataagaataa cacatttact
                                                             1740
ttgtaattaa gttctgagaa gttacaagaa tttaaaaaaat ccatatctaa gatttcctca
                                                             1800
tattaactaa gtacttcttg aaataaatca gcatagatac attacctgaa tctaatttta
                                                             1860
cactgcatag taggatcctt aataagctta gcctctaagg gggccacttt cttcagtatt
                                                             1920
tcatgtgtta catagaattc ctgaaataaa ggacagtgct gtaaaaggaa agcagtatcc
                                                             1980
                                                             2040
cacccagaca caatttatgg actataacag aggcaacgtg gtaaagtgaa cattatgctg
                                                             2100
gacttggagt tctgaagggg tgggtttttg ttttggcacc tccacttact atctgtgtag
ccttgagcca gttacttaat cattttggcc tccaactttg gttatctgtc ccttttagag
                                                             2160
atcaaaggca ctattatttc cctatgacag cacttttcac aatatattat aattacttat
                                                             2220
                                                             2280
caacttgtct gtgcctccta ctagactgta agcttcatga aggtagggat ggtggctttt
ctctttacca ctatattcct agcatctaat acagtgcctg gaacacagca gatgcttaag
                                                             2340
```



```
<210> 2035
<211> 1191
<212> DNA
```

<213> Homo sapiens

<400> 2035

aaaaaatgta agctgaaatg atgacgtgtt cttttagaag gtttatcata gcaactacta 60 taggcagtga ttctaagaag atgctattct ttttttccat tgctttgtct agttttttt 120 ttttaaatct gtttttgtgc ctttgtaatt ctagggttat tggtatagtt ctcaccatat 180 cttgaataca gatgcttttt cctttggaaa taatttctca taaagcacat tgcttatagc 240 tgcttccctt ttcccagagt agtaaaagtt gtgatacaag acagtgatat cagctgggcg 300 tggtggcaca cgcctgtaat cccagcacgt tgggaggcca aggcaggcag atcacttgag 360 gccaggagtt cgagaccagc ctggccaaca tggtgaatcc ccgtctctac taaaaataca 420

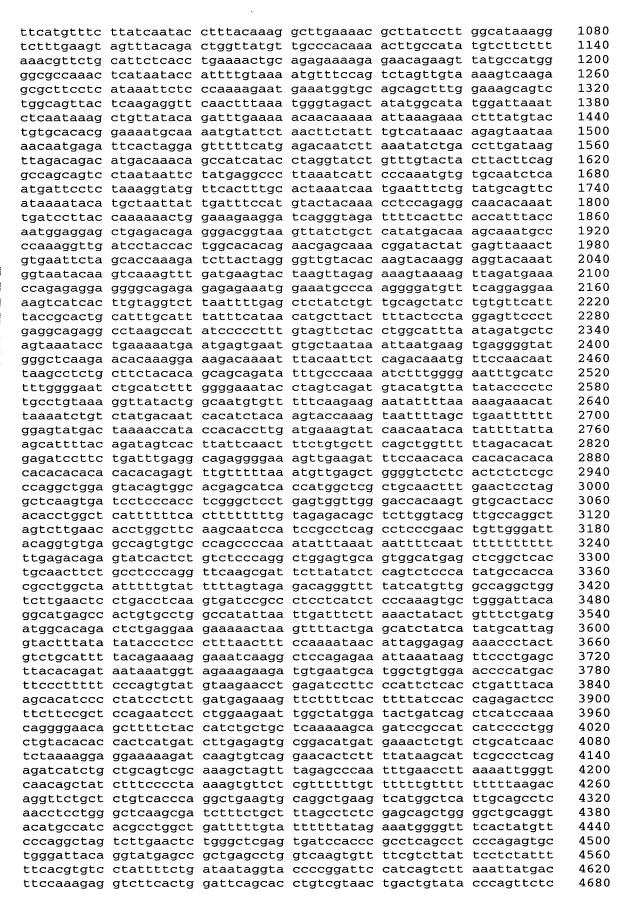
```
480
cacaaaaaat tagctgggtg tggtggtttg tgcctgtagt cccagctact cgggaggctg
                                                                      540
aggcacgaga attgcttgaa ccagggaggt ggaggttgca gtaagctgag attgcaccac
                                                                      600
tacactccag cctgggtgac agaacgagac tctgtctcag aaaaaaaaa aaagagacaa
                                                                      660
tgatatgaaa aggtcttaca tgaatgagtt ttacgcatga ttcaatctgt aagtcctata
                                                                      720
aattatttt gatggatggt atctattttc ttcctattag tagtttgggg caaaaataaa
                                                                      780
tttaactgaa tgtaaaaata ttcagctcta tggggagctg agaagaacta aatattttca
                                                                      840
gacacttgtt atgtgcaggt tgtttggcat atatttttaa aaatctttat aataccattt
                                                                      900
tgaattaaat tctatcccca tttaacaaat gaggaggtgg tttctattct taagtaactt
                                                                      960
tcccaaaatc actcaattaa gtggcaaggg tgggatttaa atcgaagcct atactctttc
acttgtttcc aaagatgcca aactcaaaat gtggctaaac agtaaatctt gagcaaagaa
                                                                     1020
atgatttact aggaagcagc acaatagaac atactggatg taggaaatgt tatatatctt
                                                                     1080
gatctcattg gtggtaacac aagtatatac atatgaaaaa gttagtttta tccttactgt
                                                                     1140
tagtactcag tgctcttatt attcctcaaa aatgaaaaaa aaagtaaaaa a
                                                                     1191
<210> 2036
<211> 1192
<212> DNA
<213> Homo sapiens
<400> 2036
aaaaaatgta agctgaaatg atgacgtgtt cttttagaag gtttatcata gcaactacta
                                                                       60
taggcagtga ttctaagaag atgctattct ttttttccat tgcttggtct agttttttt
                                                                      120
                                                                      180
tttaaaactc tgttttggtg ccttggtaat tctagggtta ttggtatagt tctcaccata
tcttggatac agatgctttt tcctttggaa ataatttctc ataaagcaca ttgcttatag
                                                                      240
ctgcttccct tttcccagag tagtaaaagt tgtgatacaa gacagtgata tcagctgggc
                                                                      300
gtggtggcac acgcctgtaa tcccagcacg ttgggaggcc aaggcaggca gatcacttga
                                                                      360
                                                                      420
ggccaggagt tcgagaccag cctggccaac atggtgaatc cccgtctcta ctaaaaatac
                                                                      480
acacaaaaaa ttagctgggt gtggtggttt gtgcctgtag tcccagctac tcgggaggct
                                                                      540
gaggcacgag aattgcttga accagggagg tggaggttgc agtaagctga gattgcacca
                                                                      600
ctacactcca gcctgggtga cagaacgaga ctctgtctca gaaaaaaaaa aaaagagaca
                                                                      660
atgatatgaa aaggtettae atgaatgagt tttacgcatg atteaatetg taagteetat
                                                                      720
aaattatttt tgatggatgg tatctatttt cttcctatta gtagttttgg gcaaaaataa
                                                                      780
atttaactga atgtaaaaat attcagctct atggggagct gagaagaact aaatattttc
                                                                      840
agacacttgt tatgtgcagg ttgtttggca tatattttta aaaatcttta taataccatt
                                                                      900
ttgaattaaa ttctatcccc atttaacaaa tgaggaggtg gtttctattc ttaagtaact
                                                                      960
ttcccaaaat cactcaatta agtggcaagg gtgggattta aatcgaagcc tatactcttt
                                                                     1020
cacttqtttc caaaqatqcc aaactcaaaa tgtggctaaa cagtaaatct tgagcaaaga
                                                                     1080
aatqatttac taqqaaqcaq cacaatagaa catactggat gtaggaaatg ttatatatct
                                                                     1140
tgatctcatt qqtqqtaaca caagtatata catatgaaaa agttagtttt atccttactg
                                                                     1192
ttagtactca gtgctcttat tattcctcaa aaatgaaaaa aaaagtaaaa aa
<210> 2037
<211> 228
<212> DNA
<213> Homo sapiens
<400> 2037
tcgaggtcag gagattgaga ccatcctggc taacatggtg aaaccccatc tctactaaaa
                                                                       60
atacaaaaaa aattagccgg gcgtggtggc gggagcctgt agtcccagct actcgggagg
                                                                      120
ttgaggcagg agaatggcgt gaacctggga ggcggagctt gtagtgagcc aagatcatgc
                                                                      180
                                                                      228
cactgcactc cagcctgggc gacagagcga gactccgtct caaaaaaa
<210> 2038
<211> 711
<212> DNA
<213> Homo sapiens
<400> 2038
```

aggagatgaa actagagatt ctaaacagtg gaatttatca atatattag ctgcttatat tttgcatgct tttgcatata acttttgt cacaaaaata tttgcactgt gttatatcct ctgttaccta cgaactttct ctgccattt tagctgtata atttatttg gaatttttga aactttctt gattccagg agatgcaggg caagaaattt acttcataa atgcgctcac	acccactgag ttaatgtctt taacttattt tagggatctt aaacttttaa aaagaaatgt tgtgataaaa atgagctgtt ttttcttttt	acaaagtcag gtctttaaaa gaagttaggt gatttatgac aactactcat gtgacaaagg catgttttaa tgtttgtttt tccccttttt	ttaagatttt ataacacgta gcttctactg tggaccactt gactaatgtc cgtgattagt tacatctctt taagcaaagt tctttttta cagaattta	tgagccttcc tgacttgttg attgactttg aatgtaftaa tttcaccaaa ttcatttgct tttaacttcg aattggagtg ttgcattggt aaactaaatt	60 120 180 240 300 360 420 480 540 600 660 711
<210> 2039 <211> 374 <212> DNA <213> Homo sapiens					
<400> 2039 cctctctcta caagatggta agtaacctgg cagcccaaag tatcagcatt taaaactagg aatttaaaaa gtctgacaaa ggagtcaagt gttaactgtg cacctaggct gttttcagt atagagaaac atgt	gctgtatatg agattttgta actgtacctt ttggacttgc	gcccgtagat ttaaaataca tatagtactc ttttcagttt	gtgtatattt acatttagat ctttatagga gacagttcat	atgtattttg ttgttggaaa gtcagaggct ggtatgccaa	60 120 180 240 300 360 374
<210> 2040 <211> 710 <212> DNA <213> Homo sapiens					
<400> 2040 aggagatgaa actagagatt ctaaacagtg gaatttatca atatatttag ctgcttatat tttgcatgct tttgcatata ctttttgttc acaaaaatat ttgcactgtg ttatatccta tgttacctac gaactttcta tgccattttt agctgtatat ttttatttgg aatttttgaa acttctttg attcccaggt gatgcagggc aagaaattta acttcataaa tgcgctcact	acccactgag ttaatgtctt tacttatttg agggatcttg aacttttaaa aagaaatgtg gtgataaaac tgagctgttt tttctttttt	acaaagtcag gtctttaaaa aagttaggtg atttatgact actactcatg tgacaaaggc atgttttaat gtttgtttt tccctttttt	ttaagatttt ataacacgta cttctactga ggaccactta actaatgtct gtgattagtt acatctcttt aagcaaagta cttttttat agaatttaa	tgagccttcc tgacttgtg ttgactttga atgtattaat ttcaccaaac tcatttgctc ttaacttcga attggagtga tgcattggta aactaaatta	60 120 180 240 300 360 420 480 540 600 660 710
<210> 2041 <211> 1646 <212> DNA <213> Homo sapiens					
<400> 2041 taaaaaaaga aaatacagta ccctgcttct tgtttattaa gagtctgagc ccttctccag ccacagattt aattctggcc agtctacttt ttgctgctat aaatttatct catggagttc	cggaatctgt ccctggggtg aatgaatatg aataaaaata	tcaggggctc atgggtcttg agaagaaatg ccaatacatg	tagggctcag attgatccag agaaggtgga gggtaaatta	agctttaggg gtcaaattct aaggtgtctt taatgaagag	60 120 180 240 300 360

gtgaggagct	tcttactatc	caccccatgg	tggagggtgg	aagggcagaa	agagagagag	420
ggctggaggc	caataggtgg	ctgaactcat	ttttttatga	ggaacccact	cccataataa	480
cagcattaat	ccactcatga	gagcagagcc	cccatgaccc	aaccatttcc	cattaggtcc	540
tacctcccca	cacccactgc	actggggatc	aagtttccaa	cacatggaac	tttgggagac	600
acattcacga	catagcagag	gaccactgga	gaaaggaagg	tttttaaaga	tttttttag	660
gacactatgg	aagtgatagc	cattggacat	ggatggtgtt	tttatttta	gcatgggaaa	720
aggettatac	aactctaatc	aacttggcaa	cactaatcaa	aagtcaaaat	ctcctttgac	780
cctaccatc	ccctactatt	aacagtatta	tatcttatag	aacctaggta	tttaggaaag	840
		attgacattt				900
atatagaaat	acacactata	aggaaacact	atasaaast	ttgaaatagg	tettgeeac	960
taggagaga	acaggetate	attactgagt	attatatata	atctagccca	cctttctgag	1020
ttesttesst	ttcatttcac	tgcctttgag	ctactttaca	attacqtaaa	ttaaqqqaaa	1080
ctgatteect	ccaccicac	tgttcataga	aatagaaatt	attacgeada	raatataart	1140
cigataatyc	atacagatat	cagccaattt	tacceatttt	gtgactacg	agcaaactca	1200
gattattgtt	ctycayytat	ttataattat	ttattatta	geaactacga	tgagggatt	1260
tttcagcatt	cetgetagge	tcaataatta	agazattasa	tacaatcatc	tttaacatat	1320
aaagtgteet	actggttete	tcaataatta	acaayitaaa	acaattataa	tttaacacgc	1380
tacttttata	tttgtatgag	tcataatttt	tacttttaat	addactactc	ttaaaaaaa	1440
tagttaagta	aatttaatgt	tcatgtggta	taatttactt	ageageeeee	atagggggg	1500
tataaaaacc	atatggcaac	agggacaaat	actectgata	aaaatyycaa	gryyyyaaaa	1560
		tactacgttg				1620
		aaaaaaattg	aagttggatt	tgtttgttag	ggtggtagga	
tcctggatta	aaaaaaaaa	acaaaa				1646
<210> 2042						
<211> 510						
<212> DNA						
<213> Homo	sapiens					
<400> 2042						
gaggttcctc	ttcaaagact	ttcctccctg	tctaattaag	aataaatagt	aacttctctt	60
aggagcaaaa	cttattcaaa	gacctgtgct	aacattctta	aatatctgct	agccgtaata	120
aagaaatcaa	tgtactttat	gttcttagct	cccacaattt	agcctatttg	ccctggcaat	180
gcttatactg	gtccaagcaa	gcattaggtc	atagcctgtt	cctcttcctt	atctgaaggt	240
gtttttacgt	ttctcagcat	tccacaagtt	acttcctcct	tcattctcct	ctgcctttgc	300
		ttgctagcca				360
		acacagcagt				420
tgtctccttt	gttcggtgtt	ctctcgtggc	aaaactgctg	gcgagtgtac	cctttctgca	480
gaaagtataa	aaatgacctt	gctgaagaaa				510
<210> 2043						
<211> 1972						
<212> DNA						
<213> Homo	sapiens					
<400> 2043						
		catgttgatc				60
ccaaaattgt	gaaggatttt	attcttccat	acttatgtct	gtgttcaggg	tcatacagat	120
tctactttt	ccttttagtt	taaggtattc	tcttggagat	ttaatgtact	taaatttgac	180
cacaatttat	tgagagcata	ttctgtgtca	gacattgcac	tctgcactag	atattcagga	240
atttctaaaa	agaatgttaa	cattgctgtt	acatagtcag	ttactgatca	cattcttttc	300
ctctcaactt	ttttcaaaat	aggaatctgc	ggtatgtttt	cacgtatgga	gttcaggtca	360
ggcttagggg	tccctgacaa	tgtgaatagt	tttaagctgg	gcctcaattc	gtggtaccct	420
tatactaatt	taacaagccg	tggactctag	gttccaccaa	aaatattttg	ttccatcctc	480
totaatttca	gtccatggtg	tacagaaaga	aaactaaqqa	acttcaqccc	caaattgtca	540
aattttggta	cttaagaaac	agaagattta	aatctatcat	tttgtcttat	attccagagt	600
		taacttcttg				660
aaatatgact	tctcataggg	tttgtgttag	atattttcag	gaccagatag	atatgatgtt	720
cccatttctc	tttattatt	aaactactat	teettttaag	ctgtaatgaa	caattcattc	780
tananagan	tatatattt	carteattra	cttgaataaa	antagatntt	aaacatggag	840
cyayayycaa	cacacycett	caytaattya	Cityaacaaa	agradatytt	auacacggag	0.10

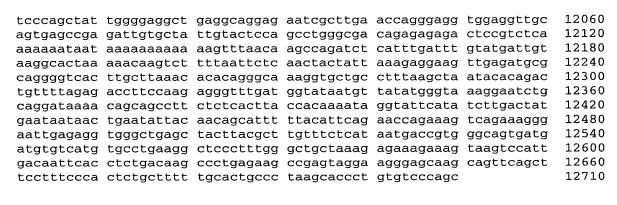


aattttggtt ttt	gttttgt tttgtt	tttt gagatgggg	t ctcgctctgt	cgcccaggct	60
ggagtgcagt ggc	gcaatct cggctc	actg caagctccg	c ctcctgggtt	catgccattc	120
	tccagag tagctg				180
	agtagag gcgggg				240
	tgcccgc ctcggc				300
	ttttggt atttt				360
	tgacctc atggtc				420
	tgcacct ggctgc				480
	tccaggc tggagc				540
	aagtggt ctttct				600
	taatttt ttattt				660
	tcctggg ctcaag				720
	gcaactg cttctg				780
	atatgga tatagt				840
	cataata tgatgc				900
	gtaggaa agaaaa				960
	agaagtt cttatt				1020
	cagtatt aagttt				1080
and the second s	tgcagtg gcacga				1140
	gcctcag cctccc				1200
	tgtattt ttagta				1260
	ctcatga tccgcc				1320
	cccggcc agtatg			9	1359
5054500400 505	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	aage acceedad	•		2003
<210> 2047					
<211> 294					
<212> DNA					
<213> Homo sap	niens				
TOMO DOLD	. 1 0 1 1 0				
<400> 2047					
	aagtgtt aggatt	acad dtdtdadct	a ccactcctga	ссссаадаса	60
	aaaaatt aaactc				120
	ataaaac caacat				180
	gatataa gtgtgg				240
	tttgtta ggaaga				294
aaccogccaa acc	.cccgcca ggaaga	ggog coccagac	.c coaggogoec	0099	
<210> 2048					
<211> 12710					
<212> DNA					
<213> Homo sap	oiens				
<400> 2048					
cttgccactt tgc	tgtctac agctcc	aatc acatcctto	a ccaggeteaa	ggactgtgct	60
	ccacttc attgtc				120
	ggcagaa gcaagg				180
	ctatcag agggaa				240
	ttgattc taaaaa				300
	gctctga aataaa				360
	caagttt ttttt				420
	aaataac taccta				480
_	gaaaaac agcagc			_	540
	agtgata acagaa	_			600
	ccttctt gctatc				660
	aaattca agataa	-		-	720
	atggggc ttccag				780
	tagaaag gagact				840
	gtaatcc gctgag		-		900
	ctgctca tcttct	-		-	960
	tagtgaa agccga				1020



agaaatgact tgtgtttagt ctagttttta gtgtaggtaa ggaaaaaaac tgagatatct 4740 ctttctagga ctgctgtata aataagtact cacatataag tacaatgttc agtagaactg 4800 aaaacagaag agtggggcaa aaaggagata ggataccaac aggaccacgt ctctgtacct 4860 taaagttttt aaaggaaatc ttttcaagaa gccacatact aaaaaactga tttttcatag 4920 tccaacaaat tactgcttaa aaatgctgga caatggaaat caaatataat cagagcaaaa 4980 5040 tgaagactct caccatatat tacttcttgc cgtttgacca catctttctt ttgctgtttt agaaacttgc tgtctattat ccgactccaa gactctgctt ccagctgttt ggactcaatc 5100 tcaaagtctc ccagtagttg tccttcattc atgtctgtac ctactcctca atatatcaaa 5160 aaatcaatat cagaatcagg tttgtgacct gtaaaataag cctatgttgg actttcctca 5220 agatgatagt tgatttcata agacacatga atacagggga tattcacaga gatcatattc 5280 5340 tagtaccaga aaaaaatcaa tatcctgttc aggagtgaca gactctacat tcgagactta 5400 ggttaacagt aataaacatg acataaatca aacatgatta agacatgact tctatctaca 5460 cgaagttaag aattggaagg gacctggtac cttttcatat ttaagagagc aggcttacaa 5520 ttgctctgtg agctagaact gtacatgtaa aaaagtctaa gggaaggaaa agatttgtac 5580 taaagagtag gcccacatcg aaataatgga catccttcac ttgacagctg ctggatgagt ctgattacgc agtcatgaca aagcactgga cactttactg acaatttaga gaatcttcac 5640 5700 gggatacaga agaggcaggt actgtcactc cattaagact tatgttctag gtaatgacac acacacagtc cctacagagg cataaaataa aggccataac ttcctcttac cctcatcagt 5760 aagtgattct gttgactcat tgaccttgct gattttattt agtgagtctg ttgaatgaga 5820 5880 caggaatttc caggtgtttg acatgttctc atcattgcca actctgggga caaaagaaaa 5940 atacatactg tcaaatacat tctgataacc tatggcttgc attcttaaat gagtacctga agactctaga atgacaactg gctggaagta ctacagtgac tgaagacaaa ttgcttatgt 6000 6060 cggggccaca gcaacatgca catggcctgg taacaaagtc gggagcattt agtatcactg 6120 qaqactcaaa ttctgaggac tttttgagcc tttttaaaga aagtgataag aagcaagggg 6180 aactttcttc catcaaacca tgtacacatt atataagaaa ctttctgttt aaaacttatt 6240 gcctaaccaa tacactgttt tttctgttct ctagataact acagatctag cacttacaat caactatgtt ctctttggac tttctcaatc ccaactcacc agctagcaca gcaggcaccc 6300 6360 aattgatgtg tgagtagaca caatagcaag aacactttaa agaccaactt ttgaaagtta 6420 caatgcatac aaactttagt aatgttacaa cttttgaaaa gtacactttt ggaaataatg agaatacaaa gacaaaacaa aacaaaacaa aacaaaaata cctgaaactt tttagaggag 6480 6540 gagaaaacat tagccagcac agaggttagg aattacaaac aaaaggagac ttttgcatcc 6600 tttagttagg aattttgctc caagataggt taaagagata ctctgagtcc tacatttgaa atggcttatt caccegacgg gaaggcaggc atcttaccca aaatagtcag caacatcatt 6660 atcagccccc tgctaaccac ttgacagcca aggcctggcc aggagaccag aaaagaaact 6720 6780 cagtgcaaac gagtgagtga gaacctaata gtaataattg gctcagcact cacctccatg 6840 6900 ccaggtttac ttgaacaaca gaaaagcatg acatctgtaa gtggttgcaa cccaaaattc tgaattaaat caccettttt cetatteeta ettattttga tetaaaaaat catettttta 6960 7020 gaactcagat tottcaaaag tagggotgat gatatacaaa aagcotacag caaccagcot 7080 gctaagggta tttaaaggag atccttgcga cagaatgacc atcatgacat gcatcagaaa 7140 cataatcccc atcgtccttg tctgcaccaa cccatgacct tatagattta tttcttaaaa 7200 aaaaaaaaa gctttttgtc atatgatgtg attattatgc tctggtcacc tagatgccaa 7260 ctgtgctatc tttaaatatc tccacttacc cagtaatgtt ctgtatggag acacttttgg agagcgagac actctgctgg gatcgtctat tggcaaatat tgggggtggta gcggtttcat 7320 7380 ccaccaggag gactgcggac cgaggacgct ccttgggctg tgaggctgca aaaggaggac 7440 actaactgaa gcatcaccca tccagctcca cctggtactg acccatctga caaataacaa 7500 gcagaagtaa ggcgctttac agtggatttg ccctggaact gtaagtttat ataaaaactc 7560 catggaggag aggacactaa ctgaagcatc acccatccag ctccacctgg tactgaccca tctgacaaat aacaagcaga agtaaggcgc tttacagtgg atttgccctg gaactgtaag 7620 7680 tttgtataaa aactccatgg aggatagttt ggtgataact attgaaattg taaatgccta 7740 tattcttcga tccagcaatt tcacttttag gctatgttta ttttacaaga tatacctgca 7800 tattcgtgaa atgatgttat gtccaaagtt attcaatgca acaccattgg taaaagcaaa 7860 agactgaaaa tgacatgagt atcacaagaa gactggtgaa taagttatac tacaccacac 7920 agcagaatac aatgccactt acaaaaaata aggacacttt ccaagtactg acacagatag atctatctcc aagatctatt aaggggagga aaatcaaagt gcagaacaaa gtatataaca 7980 8040 ggctatcttt catgcttaaa agagagaaaa ataatccaag ttgtatttac tttaacaagc 8100 gaactccagg aaaataaaca aaaaaaacta agaagagtgg ttacctctgg ggtgggacag gcaacgggga taaagaatcc tgtgggagta ttacatattt taatatttaa gctgcaaata 8160 8220 agattgaaag aatttctttt ttttttgaaa tgcagtcttg ttctgtcgcc caggctggag 8280 tgcagtggcg cgatcttggc tcactgcaag ctccgcctcc tgggttcatg ccattctcct gccgcagcct cccgagtagc tgggattaca ggcacccgcc accatgcctg gctaattttt 8340

8400 gtatttttaa tagagacggg gtttcactac gttggccaga ctggtctcaa actcctgacc 8460 tcatgatctg cccgcctcgg cctcccaaag tgctgggatt acaggcgtga gccactgcac 8520 ctggccccaa gattgaaaga attttaaggg taaaaggaac ctgagagata actgggagca 8580 qcqttcttta ggaccgttca ccatgaagac atctggagtg cctgttagat atggaatctc agccccctt gtcttctagg ggtggaaccc aagagtctac atatcttaca ggctcaagtg 8640 8700 attettetge geteeetget agegageata gattttgatg attteettta atttacagat gaggaaaatt taacacttgt ttaacacctg taactacaga tgacccctga acaacatggg 8760 tttgaactac atagatcccc ttatatgtgg aatttcttct gcctctgcca cccttgagac 8820 8880 agcaagacca accettettt tetteetett eettettggt etaeteaatg tgaaaacgae 8940 aaqqatqaaq acctttatqa tgatctactt ccacttaaca aacagtaaat atattttctc 9000 ttccttatga tttttaaaat aacatttttt cctttggctt aatttattgt aagaatacag 9060 tatataatac acataacaaa caaaatgcat taattgactg tttatgttat tggtaaggct 9120 tctggtcaac agtaggctat tagtaggtaa gttctggggg agtcaaaaag ttttatgtgg 9180 atttttgact gcatgggggt ggggctggca cacctatcat ccgagttatt caagggtcaa ttctaaattg ttctcatagt gcatatttct cattaacatg actaaagagg aaactggaga 9240 tctaatttgc taaagtggtc acgctggcac ttgggaacat ttttccctgg taatggactt 9300 gctgtcccat tcacaggttg cattatctgt ccatccccag gagtgtcaag aggtgaagga 9360 aataagactg gggtggtagt tatgacttca cagtatttca ggatgtcttt gactcaatga 9420 gcattaatat aatcattaat ttccaattca aattctattt acaagatgat gacacaataa 9480 9540 aatagcagaa acccgacatt ctaaaacctg accagattct agctgcagaa agtacacaag gattatggga tgtggcccta cccctctgcc cccacccca ccccaccca agagaaaaag 9600 9660 agcaagtggg tagaaaagag aatgagctta agagttaaag ggcctggagc ataacctgaa 9720 tgtttctgaa gggaggtcac tgagcggata aaatctgatg gaggaagaaa acactagttc 9780 ttgaagaatt gcaaggatgt ggatggtca gaagaaaaa gagaggacaa ttctgatgag 9840 aagaaccatg gaatgaaggc agaagtaatt atgtagtatt aatgtaaaag ggagacacag 9900 agtagaagat gaagcaggta gaaggaatca gtgaaaagggc tggaaaagca gaatgatgtt aggcagagct cataataact tgtatctaaa agccagcata ggggggaaga aaataacagc 9960 10020 tttccttatt tgtaaccaat ccatattcta cccaagtaag tgactcaata ttgctgtttc 10080 cttatttgtg atgatcatag cagtgaaagc taacacttaa ggaatgttta ctgctaagta ctttataggt atgatctgat ttaaacctga ctaccaccct atgatactat tatcgtcccc 10140 ttttacagag gaagaaaatg aggcacagag aggtttggta atgtccagtt acacagctct 10200 taagcagtgg tgtcagactt gaatccatac aattagaatt cacaatctgt actctacacc 10260 actatgttgc ctcagtggag tacaacagga ataagaatat ttgtgggagg gccaggtaca 10320 gtggttcacg cctataatcc cagcactttg ggaggccaag acagacagat gccttgaggt 10380 caaaaattcg acaccagcct agccaacatg gtgaaaccct atctctagta aaaatacaaa 10440 10500 aattagctgg gtgtggtggc tcacacctgt aatcccagct acttgggagg ctgaggcagg 10560 agaactgett gaacccagaa ggeggatgtt geagtgagtg gagattgtge caetgeacte 10620 cagcctgggt gacagagtaa gactcttgtc tcaaggaaaa aaaaaaaaat acttgtgggg atcaaaggta atactcatga accttgcaca taataggcat ttgtttttaa gaaagacatg 10680 aaaataagaa agaaaacaga cttctgaaac aacagataat gtcacaagaa aaaaagcatt 10740 10800 ttaggaaget agacataaaa agtatgtgga atgggtaaga teacagaeta aaagtgggta 10860 tcaacctgga gaagctcctc ttctagtcat ctacgtgtga agatggataa aaaccagatt aaatatatct aaagggaatc actctcttct gggagtgtag actagtatag ccattcagga 10920 gctatctgga agtactcaga gaaactgggc ataaaggagc ggttttcaag cttgagtggg 10980 catcagaatc acctggagga tctattaaaa cacagaccag gctgggtgcg gtggctcatg 11040 cctgttatct cagcactttg ggaggccaag gcatgaggac tgcttgaggc caggagtttg 11100 agacgagect gggcaacgta gtgagacece gtetetacaa aaaaattaaa aaatcageca 11160 ggcatagcgg cgcacacctg gagtgccagc aactcaggaa tctgaggtga ggggatttct 11220 tgagcccagg agtttgaggt tacagtgagc tatgatcaca ccactgcact ccagcctggg 11280 tgacaaagca agaccctgtc tctattaaac acactcccac acaccacaaa aaaacacaga 11340 11400 atgctggtcc catcccacgg tttgtgattc acagatcagg gtggggccca agaatcttta cttctaaaaa actacatttt caagaacact gcctgggaaa agtctcacag aggctcccat 11460 11520 ggagccagct aagaagatat taatcattgc attatttatg gtagtagctg gaagcaaagt 11580 aaatattctg tctctagggg aactttaaat gtgaaatatg cttatgaaag aataccatgc 11640 catagtctga aacaatagcg tacaataaca tgcatatctc aaaacaatat tgagtgaaaa 11700 aaataagcag aacatataag cataagtcat attatctaat ttaaattcac acaaaataat acattttttt caaagtatac atatgtctaa aaatatggca gattagaagg acatacatta 11760 aatatactaa agtaggaatg agacagggaa tggggagtga aaagggaaaa gtatcagtaa 11820 aaccaaagtg gagtcttcta tgcactggtg aaaatggttt gatgtgaatg gaagagtgtg 11880 atttactcaa ttctgaataa catttgaggt ccttagaaat aataaaaaaa aagaactatt 11940 12000 ttctataact tctcagttta gaaagaagtt taggccgggc atggtggtgc gtgcctgtaa



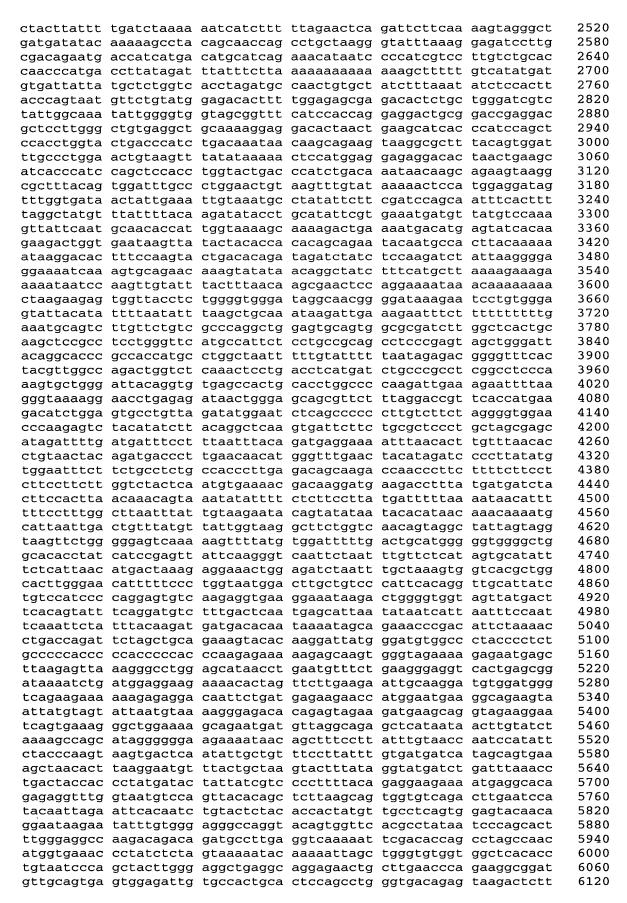
<210> 2049 <211> 8243

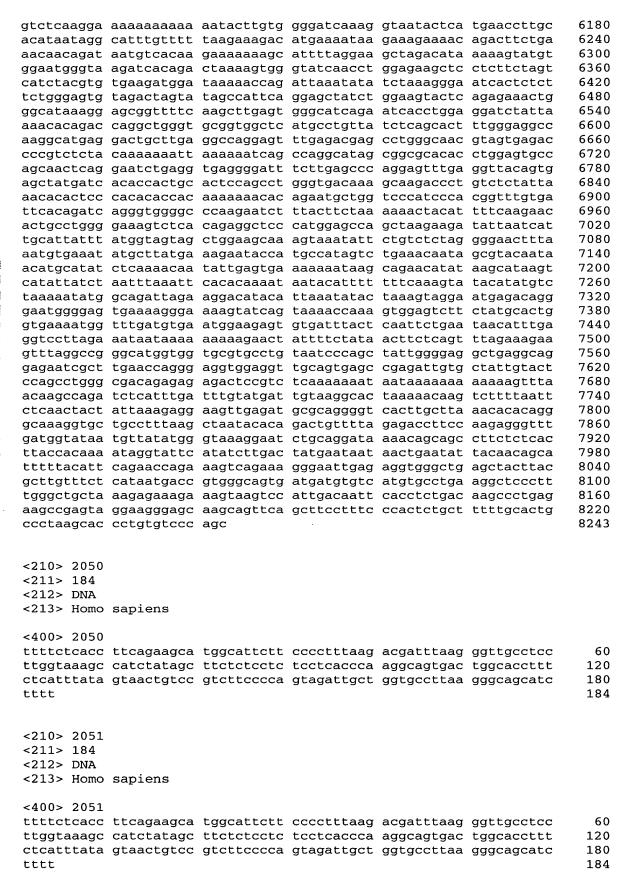
<212> DNA

<213> Homo sapiens

<400> 2049

cgagtgatcc acccgcctca gcctcccaga gtgctgggat tacaggtatg agccgctgag 60 120 cctggtcaag tgttttcatc ttattcctct atttttcacg tgtcctattt tctgataata 180 ggtaccccgg attccatcag tcttaaatta tgacttccaa agaggtcttc actggattca gcacctgtcg taactgactg tatacccagt tctcagaaat gacttgtgtt tagtctagtt 240 tttagtgtag gtaaggaaca aaactgagat atctctttct aggactgctg tataaataag 300 tactcacata taagtacaat gttcagtaga actgaaaaca gaagagtggg gcaaaaagga 360 420 gataggatac caacaggacc acgtctctgt accttaaagt ttttaaagga aatcttttca 480 agaagccaca tactaaaaaa ctgatttttc atagtccaac aaattactgc ttaaaaaatgc tggacaatgg aaatcaaata taatcagagc aaaatgaaga ctctcaccat atattacttc 540 ttgccgtttg accacatett tettttgctg ttttagaaac ttgctgteta ttatccgact 600 ccaagactct gttccagctg tttggactca atctcaaagt ctcccagtag ttgtccttca 660 720 ttcatgtctg tacctactcc tcaatatatc aaaaaatcaa tatcagaatc aggtttgtga cctgtaaaat aagcctatgt tggactttcc tcaagatgat agttgatttt ataagacaca 780 tgaatacagg ggatattcac agagatcata ttctagtacc agaaaaaaat caatatcctg 840 900 ttcaggagtg acagactcta cattcgagac ttaggttaac agtaataaac atgacataaa 960 tcaaacatga ttaagacatg acttctatct acacgaagtt aagaattgga agggacctgg 1020 taccttttca tatttaagag agcaggetta caattgetet gtgagetaga actgtacatg taaaaaagtc taagggaagg aaaagatttg tactaaagag taggcccaca tcgaaataaa 1080 tgacatectt cacttgacag ctgctggatg agtctgatta cgcagtcatg acaaagcact 1140 ggacacttta ctgacaattt agagaatctt cacgggatac agaagaggca ggtactgtca 1200 ctccattaag acttatgttc taggtaatga cacacacac gtccctacag aggcataaaa 1260 taaaggccat aacttcctct taccctcatc agtaagtgat tctgttgact cattgacctt 1320 gctgatttta tttagtgagt ctgttgaatg agacaggaat ttccaggtgt ttgacatgtt 1380 ctcatcattg ccaactctgg ggacaaaaga aaaatacata ctgtcaaata cattctgata 1440 acctatggct tgcattctta aatgagtacc tgaagactct agaatgacaa ctggctggaa 1500 gtactacagt gactgaagac aaattgctta tgtcggggcc acagcaacat gcacatggcc 1560 tggtaacaaa gtcgggagca tttagtatca ctggagactc aaattctgag gactttttga 1620 gcctttttaa agaaagtgat aagaagcaag gggaactttc ttccatcaaa ccatgtacac 1680 attatataag aaactttctg tttaaaactt attgcctaac caatacactg tttttctgt 1740 1800 tctctagata actacagatc tagcacttac aatcaactat gttctctttg gactttctca 1860 atcccaactc accagctagc acagcaggca cccaattgat gtgtgagtag acacaatagc aagaacactt taaagaccaa cttttgaaag ttacaatgca tacaaacttt agtaatgtta 1920 1980 2040 caaaacaaaa atacctgaaa ctttttagag gaggagaaaa cattagccag cacagaggtt 2100 aggaattaca aacaaagga gacttttgca tcctttagtt aggaattttg ctccaagata 2160 ggttaaagag atactctgag tcctacattt gaaatggctt attcacccga cgggaaggca 2220 ggcatcttac ccaaaatagt cagcaacatc attatcagcc ccctgctaac cacttgacag 2280 ccaaggcctg gccaggagac cagaaaagaa actcagtgca aacgagtgag tgagaaccta 2340 atagtaataa ttggctcagc actcacctcc atgaaactga cttaagtgtt aaaaggcaaa 2400 gatgtaaaac agaggtaaga agaaacaaaa caaccaggtt tacttgaaca acagaaaagc 2460 atgacatctg taagtggttg caacccaaaa ttctgaatta aatcaccctt tttcctattc





<210> 2052 <211> 2853 <212> DNA <213> Homo sapiens <400> 2052 60 agtctgtgtc ttttaacggg ggcatttagc ctgtttacat ttaaggttaa tattgttatg tgtgagtttg atcctgtcat tatgatgcta gctggttatt ttgcccgtta gttgatgcag 120 180 attetteata atgteaatgg cetttacaat ttggtatgtt tttgcagtgg etggtaetge tttttccttt ttgtatttag tgcttccttc agaagatctt gtaaggcagg actggtggtg 240 acaaaatctt tcagcatttg cttttctgtg aaggatttta tttctccttc acttatgaag 300 cttagtttgg ctggctctga aattctgggt tgaaaattct tttctttaag aatgttgtgc 360 420 caqqcaccqt gqctcatqtg tgtaatccca gcactttggg aggctgaggc tggcagatca cctgaggtca ggagttcaag accagcctga ccaacatggg aaaactccat ctctactaaa 480 aatacaaaat tagccagctg tggtggcaca tgcctgtaat cccaactact tgggaggctg 540 aggcaggaga atcgcttgaa cccaggaggt caggttgcgg tgagccgaga tcttgccatc 600 660 atactccagc ctgggcaaca agagtgaaac tccatctcac acaaaaaaaa gaatgttgaa 720 tattggcccg cactctcttc tggcttgtag tgtttccgca gagaaatcca ctgttagtct 780 gatgggcttc cctttgtgga taacccgacc tttctctctg gctgccctta acgttttttt cattcctttc aaccttggtg aatctgatga ttacgtgtct tggggctgct cttctcgaga 840 900 agtatetttg tggtggtete tgtettteet gaaettgaat gttggtetgt ettgetaggt 960 tggggaagtt ctcctggata atatcctgaa gagtgttttc caacttggtt ccattctccc catcattttc aggtacacca gtcaaacata ggtttggtct tctcacatag tcccatattt 1020 cttggaggct ttgttcattc cttttcattc atttttctct aatcttgtct tcatgcttta 1080 tttcattaag ttgatcttca atctctgata tccttttttc cacttgatcg atttggctat 1140 tgatacttgt gtatgcttca caaagttctt gtgctgtgtt tttcagctcc atcaggtcat 1200 tgatgatttt ctctagactg gttattctag ttagcaattc ttctaacctt ctttcaaggt 1260 1320 tcttagtttc cttgcagtgg gttagaatgt gctcctttag ctcggaggag ttacccacct tccgaagcct acttctgtca attcgtcaaa ctcattttcc atccagtttt gtttccttgc 1380 tggcgaggag ttatgatccc ttggaggaga agaggtgttc tggtttttgg aattttcagc 1440 cttcttgtgc tggtttttcc tcatctccct ggatttatct gcctttggtc tttgatgttg 1500 1560 gtgacctttg gatggggttt ttgtgtggac atcgtttttg ttgatgttga tgctattcct ttctgttttt tagtttttct cctaacaggc aggcttctct cctgcaggcc tgctggagtt 1620 tgctggaggt ccactccaga ccctgtttgc ctgagtatca ctagcagaca ctgcagaaca 1680 1740 gcaaagattg ctgcctgctc cttcctctgg aagtttcgtc ccagaggggc acccgccaga 1800 tgctagtgga gctctcctgt atgaggtgtc tgttgacccc tgctgggagg tgtctcccag 1860 tcaggaggca caggggtcag ggacccactt gaggaggcag tctgtccctt agcagagttt 1920 gagtgctgtg ctgggagatt cgctgctctc ttcagagctg gcaggcagga acatttacgt ctgctgaagc tgcacccaca gccgcctctt ccgccaggtc ctctgtccca gagaggtggg 1980 2040 agttttatct gttagcccct gactggggct gctgcctttc tttcagagat gccctgtcca 2100 gagaggagga atctagagag gcagtctggc tatggcagct ttgcagagct gtggtgggct ctgcccaatt cgaacttccc agaagctttg tttatactgt gaggggaaaa ccacctactc 2160 aagcctcagt aatggtggac gcttctcccc acaccaagct tgagagtccc aggtcgactt 2220 cagactgctg tgctggcagc aagaatttca agccagtgga ttttagcttg ctgggctctg 2280 tggcggtggg atccactgat ccacttggct ccctggcttc agttcccttt ccaggagagt 2340 2400 aaaaaaacct tctgcagcta gcttggtgtc tgcctaaatg gctgccctgt tttgcgcttg 2460 2520 aaacccaggg ccctggtagt gtcagcactc gagggaatct cctggtctgt gggttgtaaa 2580 gaccatggga aaagcatagt atctgggttg gaatgcacca ttcctcattg cacagtccct 2640 catggcttcc ctttggtggg ggaggttgtt ttctcacccc ttgagcttac cgtgtgaggt gatgcacccc ccctgctttg gctcgtgctc tgtgggctgc acccactgtc taacctgtac 2700 caaagagatg agccaggtac cttagttgga aatgcagaaa tcacccactt tctgcattga 2760 tctcactggg agctgcagac ctgagctgtt cctgttaggc catcttgcca gccactcata 2820 2853 ttttactttt aagtgattag gttgtttggg aga <210> 2053

<213> Homo sapiens

<211> 2853 <212> DNA

<400> 2053						
	ttttaacggg	ggcatttagc	ctotttacat	ttaaggttaa	tattqttatq	60
tataaattta	atcctgtcat	tatgatgcta	actaattatt	ttgcccgtta	gttgatgcag	120
attetteata	atgtcaatgg	cctttacaat	ttggtatgtt	tttgcagtgg	ctggtactgc	180
	ttgtatttag					240
	tcagcatttg					300
	ctggctctga					360
	ggctcatgtg					420
cctgaggtca	ggagttcaag	accagcctga	ccaacatggg	aaaactccat	ctctactaaa	480
	tagccagctg					540
	atcgcttgaa					600
	ctgggcaaca					660
	cactctcttc					720
gatgggcttc	cctttgtgga	taacccgacc	tttctctctg	gctgccctta	acgtttttt	780
cattcctttc	aaccttggtg	aatctgatga	ttacgtgtct	tggggctgct	cttctcgaga	840
	tggtggtctc					900
	ctcctggata					960
	aggtacacca					1020
cttggaggct	ttgttcattc	cttttcattc	atttttctct	aatcttgtct	tcatgcttta	1080
	ttgatcttca					1140
	gtatgcttca					1200
	ctctagactg					1260
	cttgcagtgg					1320
	acttctgtca					1380
	ttatgatccc					1440
	tggtttttcc					1500
	gatggggttt					1560
	tagtttttct					1620
	ccactccaga					1680
	ctgcctgctc					1740 1800
	gctctcctgt					1860
	caggggtcag					1920
	ctgggagatt					1980
	tgcacccaca gttagcccct					2040
						2100
	atctagagag cgaacttccc					2160
	aatggtggac					2220
	tgctggcagc					2280
	atccactgat					2340
	gtcgctggcc					2400
	tctgcagcta					2460
	ccctggtagt					2520
	aaagcatagt					2580
	ctttggtggg					2640
	ccctgctttg					2700
	agccaggtac					2760
	agctgcagac					2820
	aagtgattag			_	_	2853
	-		-			
<210> 2054						
<211> 421						
<212> DNA						
<213> Homo	sapiens					
<400> 2054						
	tttacttcca					60
	atattctgtt					120
ctttgtccag	agctgagttc	aagtcctgaa	tatccttgtt	aattttctgt	ctcgttgatc	180

tctctttgta tatatttagg	tgacagtggg ggtctctaag gtagttagct tttttgatct	aacttgctta cttcttgttg	tgaattgggt cattgaacct	gcttctgtat tttaccatta	agggtgccta tgtaatgccc	240 300 360 420 421
<210> 2055 <211> 340 <212> DNA <213> Homo	sapiens					
ttatagtttc agcctagcta atcatctact tgatttttgt	gtatatgcat ttctttagaa tagaaacagc ttttaaaagt gggaggtcag tgacctgatg	acatataaga acttttaaat atgatacttt agttggatgg	ttaaagataa ttcatatgta attatttgca agaagggtca	aagaaataga cagtgattta aattatttaa	atagggaaat ttatttgcaa tttttaaaag	60 120 180 240 300 340
<210> 2056 <211> 340 <212> DNA <213> Homo						
ttatagtttc agcctagcta atcatctact tgatttttgt	gtatatgcat ttctttagaa tagaaacagc ttttaaaagt gggaggtcag tgacctgatg	acatataaga acttttaaat atgatacttt agttggatgg	ttaaagataa ttcatatgta attatttgca agaagggtca	aagaaataga cagtgattta aattatttaa	atagggaaat ttatttgcaa tttttaaaag	60 120 180 240 300 340
<210> 2057 <211> 421 <212> DNA <213> Homo						
agaagaatgt ctttgtccag tgtctaatat tctctttgta tatatttagg	tttacttcca atattctgtt agctgagttc tgacagtggg ggtctctaag gtagttagct tttttgatct	gatttggggt aagtcctgaa gtgttaaagt aacttgctta cttcttgttg	ggagagttct tatccttgtt ctcctactat tgaattgggt cattgaacct	gtagatgtct aattttctgt taattgggtg gcttctgtat tttaccatta	attaggtctg ctcgttgatc ggagtctaag agggtgccta tgtaatgccc	60 120 180 240 300 360 420 421
<210> 2058 <211> 2853 <212> DNA <213> Homo						
tgtgagtttg attcttcata	ttttaacggg atcctgtcat atgtcaatgg ttgtatttag	tatgatgcta cctttacaat	gctggttatt ttggtatgtt	ttgcccgtta tttgcagtgg	gttgatgcag ctggtactgc	60 120 180 240

420 480

540

acaaaatctt	tcagcatttg	cttttctgtg	aaggatttta	tttctccttc	acttatgaag	300
cttagtttgg	ctggctctga	aattctgggt	tgaaaattct	tttctttaag	aatgttgtgc	360
	ggctcatgtg					420
cctgaggtca	ggagttcaag	accagcctga	ccaacatggg	aaaactccat	ctctactaaa	480
aatacaaaat	tagccagctg	tggtggcaca	tgcctgtaat	cccaactact	tgggaggctg	540
aggcaggaga	atcgcttgaa	cccaggaggt	caggttgcgg	tgagccgaga	tcttgccatc	600
atactccagc	ctgggcaaca	agagtgaaac	tccatctcac	acaaaaaaaa	gaatgttgaa	660
	cactctcttc					720
gatgggcttc	cctttgtgga	taacccgacc	tttctctctg	gctgccctta	acgtttttt	780
cattcctttc	aaccttggtg	aatctgatga	ttacgtgtct	tggggctgct	cttctcgaga	840
agtatctttg	tggtggtctc	tgtctttcct	gaācttgaat	gttggtctgt	cttgctaggt	900
	ctcctggata					960
	aggtacacca					1020
	ttgttcattc					1080
	ttgatcttca					1140
	gtatgcttca					1200
	ctctagactg					1260
tcttagtttc	cttgcagtgg	gttagaatgt	gctcctttag	ctcggaggag	ttacccacct	1320
tccgaagcct	acttctgtca	attcgtcaaa	ctcattttcc	atccagtttt	gtttccttgc	1380
	ttatgatccc					1440
	tggtttttcc					1500
	gatggggttt					1560
	tagtttttct					1620
	ccactccaga					1680
	ctgcctgctc					1740
	gctctcctgt					1800
	caggggtcag					1860
	ctgggagatt					1920
	tgcacccaca					1980
	gttagcccct					2040
	atctagagag					2100
	cgaacttccc					2160
	aatggtggac					2220
	tgctggcagc					2280
	atccactgat					2340
	gtcgctggcc					2400
	tctgcagcta					2460 2520
	ccctggtagt					2520
	aaagcatagt					2640
	ctttggtggg					2700
	ccctgctttg					2760
	agccaggtac agctgcagac					2820
	agetgettag			caccicgcca	gccacccaca	2853
LLLLactit	aaytyattay	guiguitgg	aya			2000
<210> 2059						
<211> 2853						
<212> DNA						
<213> Homo	sapiens					
(ZIS) Homo	bapiens					
<400> 2059						
	ttttaacggg	ggcatttagc	ctgtttacat	ttaaggttaa	tattgttatg	60
	atcctgtcat					120
	atgtcaatgg					180
tttttccttt	ttgtatttag	tgcttccttc	agaagatctt	gtaaggcagg	actggtggtg	240
	tcagcatttg					300
	ctggctctga					360
	aactcatata					420

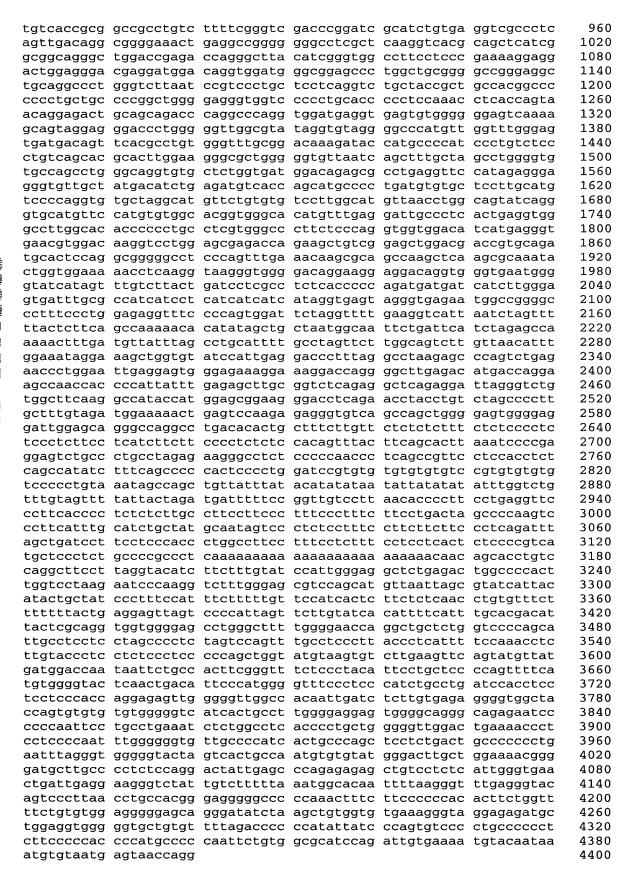
caggcaccgt ggctcatgtg tgtaatccca gcactttggg aggctgaggc tggcagatca

cctgaggtca ggagttcaag accagcctga ccaacatggg aaaactccat ctctactaaa aatacaaaat tagccagctg tggtggcaca tgcctgtaat cccaactact tgggaggctg

<212> DNA <213> Homo sapiens

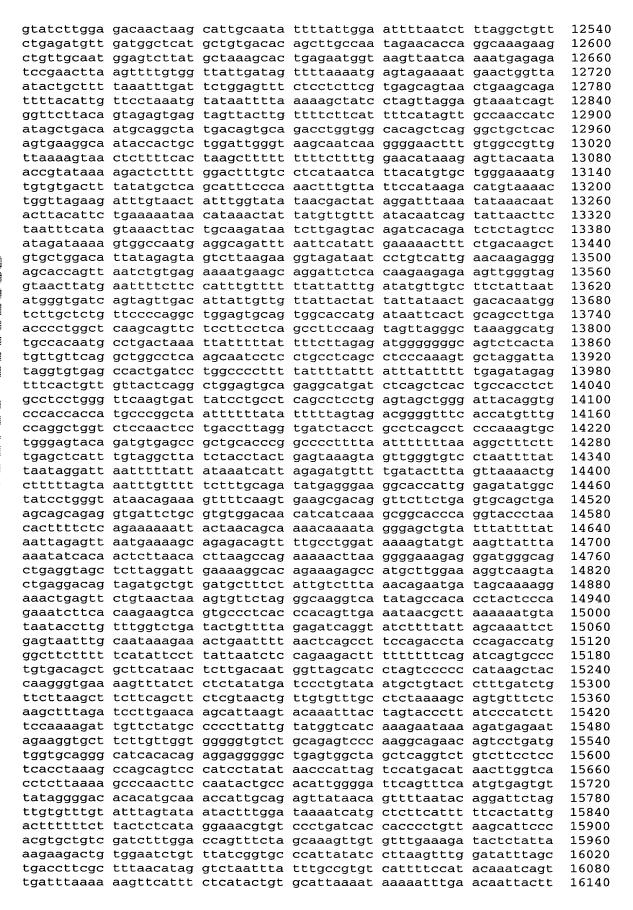
aggcaggaga	atcocttoaa	cccaggaggt	caggttgcgg	tgagccgaga	tcttgccatc	600
		agagtgaaac				660
		tggcttgtag				720
		taacccgacc				780
		aatctgatga				840
		tgtctttcct				900
		atatcctgaa				960
		gtcaaacata				1020
		cttttcattc				1080
		atctctgata				1140
						1200
		caaagttctt				1260
		gttattctag				1320
		gttagaatgt				1380
		attcgtcaaa				1440
		ttggaggaga				1500
		tcatctccct				1560
		ttgtgtggac				
		cctaacaggc				1620
	_	ccctgtttgc				1680
		cttcctctgg				1740
		atgaggtgtc				1800
		ggacccactt				1860
		cgctgctctc				1920
		gccgcctctt				1980
		gactggggct				2040
		gcagtctggc				2100
		agaagctttg				2160
		gcttctcccc				2220
		aagaatttca				2280
		ccacttggct				2340
		ttccaggtgt				2400
aaaaaaacct	tctgcagcta	gcttggtgtc	tgcctaaatg	gctgccctgt	tttgcgcttg	2460
		gtcagcactc				2520
gaccatggga	aaagcatagt	atctgggttg	gaatgcacca	ttcctcattg	cacagtccct	2580
		ggaggttgtt				2640
gatgcacccc	ccctgctttg	gctcgtgctc	tgtgggctgc	acccactgtc	taacctgtac	2700
caaagagatg	agccaggtac	cttagttgga	aatgcagaaa	tcacccactt	tctgcattga	2760
tctcactggg	agctgcagac	ctgagctgtt	cctgttaggc	catcttgcca	gccactcata	2820
ttttactttt	aagtgattag	gttgtttggg	aga			2853
<210> 2060						
<211> 421						
<212> DNA						
<213> Homo	sapiens					
<400> 2060						
tgaggagtgt	tttacttcca	attctgtggt	caattttaga	ataagtgtga	tgtggtgctg	60
		gatttggggt				120
ctttgtccag	agctgagttc	aagtcctgaa	tatccttgtt	aattttctgt	ctcgttgatc	180
		gtgttaaagt				240
tctctttgta	ggtctctaag	aacttgctta	tgaattgggt	gcttctgtat	agggtgccta	300
tatatttagg	gtagttagct	cttcttgttg	cattgaacct	tttaccatta	tgtaatgccc	360
ttctttgtct	tttttgatct	tggttggttt	aaagtctgtt	ttatcagagg	ctaggattgc	420
a						421
<210> 2061						
<211> 340						
<212> DNA						

ttatagtttc agcctagcta atcatctact tgatttttgt	gtatatgcat ttctttagaa tagaaacagc ttttaaaagt gggaggtcag tgacctgatg	acatataaga acttttaaat atgatacttt agttggatgg	ttaaagataa ttcatatgta attatttgca agaagggtca	aagaaataga cagtgattta aattatttaa	atagggaaat ttatttgcaa tttttaaaag	60 120 180 240 300 340
<210> 2062 <211> 340 <212> DNA <213> Homo	sapiens					
ttatagtttc agcctagcta atcatctact tgatttttgt	gtatatgcat ttctttagaa tagaaacagc ttttaaaagt gggaggtcag tgacctgatg	acatataaga acttttaaat atgatacttt agttggatgg	ttaaagataa ttcatatgta attatttgca agaagggtca	aagaaataga cagtgattta aattatttaa	atagggaaat ttatttgcaa tttttaaaag	60 120 180 240 300 340
<210> 2063 <211> 421 <212> DNA <213> Homo	sapiens					
agaagaatgt ctttgtccag tgtctaatat tctctttgta tatatttagg	tttacttcca atattctgtt agctgagttc tgacagtggg ggtctctaag gtagttagct tttttgatct	gatttggggt aagtcctgaa gtgttaaagt aacttgctta cttcttgttg	ggagagttct tatccttgtt ctcctactat tgaattgggt cattgaacct	gtagatgtct aattttctgt taattgggtg gcttctgtat tttaccatta	attaggtctg ctcgttgatc ggagtctaag agggtgccta tgtaatgccc	60 120 180 240 300 360 420 421
<210> 2064 <211> 4400 <212> DNA <213> Homo	sapiens					
cactectete ggecetetet ctgggacetg ttcacgattg ggggcaggeg ttggggaage atggtggege egecegeee agtgeeega teggageeag ececgeeatg ecettggeaae ecettggeaae ecaggeeeaa	gcttcctttg caccctagca gatttcccaa ggcgcggggc agggagtggt gcaggcggtt cgcagcagcc ggggcccgtg ccgcgggccc tgcgggtgac cgcgagccgc tgagtcggc cggagccgc tgagtcggc tgagtcggc aggccgtcgg	gtaaggtccc ctccagccca aagaccttgg ctgggggtta tgggggggct cgccttgggg gtcctgcccg gctcgcgacg gcgcggccgc cgccgccatc gcccgccacc gagtgcccgg gcgcgcggg	cgctctcgat ttccaagtgc gctgtgtggg ggtgtagggc gtggtcagac tcccgcgagt gcacgaccc cgtctcccgc catctttccg actgccgctg ctcaccgcgc ggtctctcct ggccgaggag	actgcccag tgaaggcggg gtgcaggctg caggctgcgt agggtggggt gccgagggag cgccccgcag ggcgcccgc tcccgggcag ccaagtcctc ttccctgcgc gcgttccccg	cacctgcact tcgctaggtg gtttactggg tgtgctctaa ggcggtgggt ctgccggagc cgcccgcag ccccgccgc ccagcgccag caccgctgc cggccgcgc cggccgcgc	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900



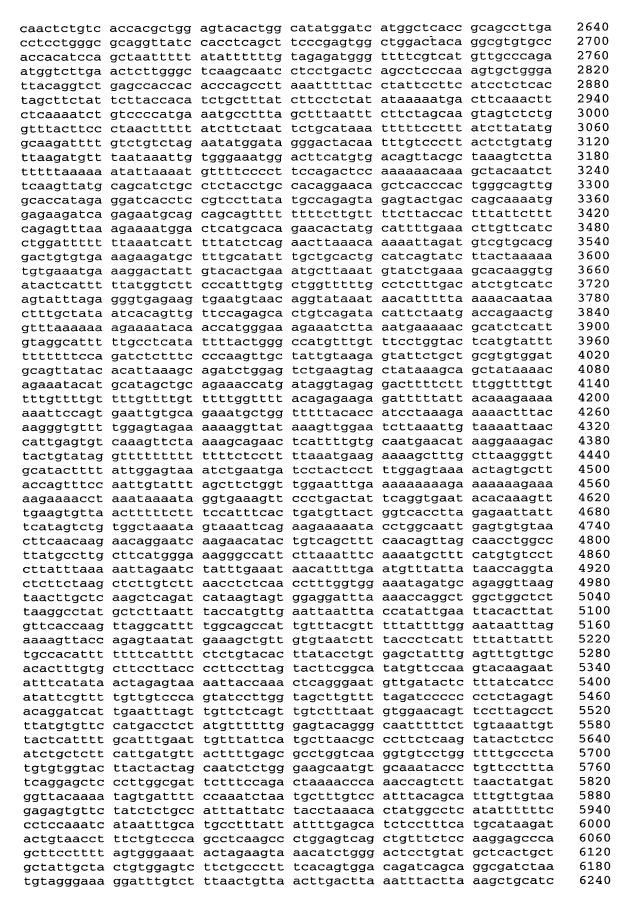
<210> 2065					
<211> 463					
<212> DNA					
<213> Homo sap	iens				
<400> 2065					
gtctaagatc ttt	tttattt ttctattt	tt tttttttggt	tgggggagaa	taagatcttt	60
tcttaaccaa tgg	gaataat attggato	gg aaggtatacc	aggaaggttg	agaagataca	120
ttggtaatgg act	ggacttt gcaagagg	cc ctgaccttgg	gcagggcaaa	gtgtgattct	180
caaagtggcc aca	ggggggc actaggag	ıtt ggtaatggga	agtgtcatag	ccagcccgtg	240
tctctaagcc cgg	tgcgccc tgtggtct	ag ggttcccagc	tttcgtttcc	ctttactggg	300
gcatgttcct gct	gttggac tcctttct	ac tcctcgattt	aacttctaga	cgctctgccg	360
tggctcccgt gca	gcagtag atgaagta	gt tggccatttc	tgtgaagcat	gtcttcccct	420
ctgtgcctaa ccc	agtgcca gcgcccag	at ggggttagta	aat		463
<210> 2066					
<211> 359					
<212> DNA	•				
<213> Homo sap	iens				
<100× 2066					
<400> 2066	+ gangan gangang	vas agaggataat	aatataaaaa	~~~~~~~	60
	tgcacaa ggaccagg				120
	cttagat tgggctga				180
	agacago tgggaaat				240
	gggtggg gcactgca				300
	gggaggg aggaagct				359
agecteetty cae	cttccag ggatgtag	ita agcaccccca	ccccagggcc	aaayyyeet	339
<210> 2067					
<210> 2067 <211> 16146		•			
<211> 16146 <212> DNA	iens				
<211> 16146	iens				
<211> 16146 <212> DNA	iens				
<211> 16146 <212> DNA <213> Homo sap <400> 2067	iens teegget teetteag	ytc cgctggtccc	gagcacgagc	tgtgagggga	60
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act					120
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act ttcacttgtg tgc	teegget teetteag	ca tggtgagcct	gactcccctg	cctattgccc	
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg	teegget teetteag ggaacte eteggaad eegtget ettgeead teteece ggeeeted	cca tggtgagcct cc cactgcttcc cgc acatggtgcg	gactcccctg tctgtcctgc agccatgcgc	cctattgccc tagggacgta ggggcgtgcg	120 180 240
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgcca ggc	teegget teetteag ggaaete eteggaad eegtget ettgeead teteece ggeeeted eageegg tggagete	ca tggtgagcct cc cactgcttcc cgc acatggtgcg cac cacgaggggg	gactccctg tctgtcctgc agccatgcgc aggggtggac	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca	120 180 240 300
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctctt gtg	teegget teetteag ggaaete eteggaad eegtget ettgeead teteece ggeeeted eageegg tggagete eetaggt etttgeat	cca tggtgagcct ccc cactgcttcc cgc acatggtgcg cac cacgaggggg cag tcccggcagc	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg	120 180 240 300 360
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgcca ggc gcgtctcctt gtg gagcgaagaa att	teegget teetteaggaace etgget ettgeeace tetecee ggeeeteece ettgeageteetaggt etttgeateetagtg tgggaeee	teca tggtgageet eec cactgettee egc acatggtgeg ac cacgagggg ag teceggeage egc teegeeetee	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc ttctaggggc	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga	120 180 240 300 360 420
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgcca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ctg	teegget teetteaggaace etgget ettgeace tetece ggeeete etgget ettgeat ettgeat ettgeat ettagt tetagt agaggtgagete ageeate agagggtg	teca tggtgagect cec cactgettee cgc acatggtgeg cac cacgaggggg cag teceggeage cgc teegecetee gga ggggeegeag	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg	120 180 240 300 360 420 480
<211> 16146 <212> DNA <213> Homo sap <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ctg gaggccgcgt tcc	teegget teetteaggaacte etegee tetegee ggeeetee etegget ettgeate ettgeate ettgeate ettagtg teggaeee ageeate geeeggee	ted tggtgagect ecc cactgettee ege acatggtgeg eac cacgaggggg eag teeegeetee egg ggggeegeag egg egteacettg	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctcct	120 180 240 300 360 420 480 540
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ctg gaggccgcgt tcc gctcattct tag	teegget teetteaggaacte etegee teegee geeegget ettgeacte ettgeacte ettgeacte ettgeaget ettagtg teggaecte aggeete aggeete aggeete ettgeat tetagtg tegeetegee	ted tggtgagect cec cactgettee ege acatggtgeg ac cacgaggggg eag teceggeage tecegeetee gga ggggeegeag egg egteacettg ag tetegetgta	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg accctccct aatctcgctg	120 180 240 300 360 420 480 540 600
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgcca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ctg gaggccgcgt tcc gctcattct tag gtgtataatt tat	teegget teetteag ggaacte eteggaac eegtget ettgeeac teteece ggeeetec eageegg tggagete eetaggt etttgeat tetagtg tgggaeec ageeate agagggtg etegeee geeeggea tteaaga tegtette acteecg ggggeett	tggtgagcct cc cactgcttcc gc acatggtgcg ac cacgaggggg ag tcccggcagc gc tccgcctcc ga ggggccgcag agg cgtcaccttg ag tctcgctgta agt aaatccgaaa	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca	120 180 240 300 360 420 480 540 600 660
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgcca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ctg gaggccgcgt tcc gctcattct tag gtgtataatt tat agtccctct tcc	teegget teetteag ggaacte eteggaac cegtget ettgeeac teteece ggeeetec cageegg tggagete cetaggt etttgeat tetagtg tgggaeec ageeate agagggtg ctegeee geeeggea tteaaga tegtette acteecg ggggeett cacttaa atgettte	tggtgagcct cc cactgcttcc cgc acatggtgcg cac cacgaggggg cag tcccggcagc cgc tccgcctcc gga ggggccgcag agg cgtcaccttg cag tctcgctgta cgt aaatccgaaa ctc cgatgatgga	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac	120 180 240 300 360 420 480 540 600 660 720
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ctg gaggccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg	teegget teetteag ggaacte eteggaac eegtget ettgeeac teteece ggeeetee eageegg tggagete eetaggt etttgeat tetagtg tggaace ageeate agagggtg etegeee geeeggea tteaaga tegtette acteece ggggeett eacttaa atgettte agtttte tettagat	ted tggtgagect ecc cactgettee ege acatggtggg eac teegecetee ege ggggeegeag ege tetegetgta ege egetgatgga egt ceacttgta	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca	120 180 240 300 360 420 480 540 600 660 720 780
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggcgtc act ttcacttgtg tgc tacccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag	teegget teetteag ggaacte eteggaac eegtget ettgeeac teteece ggeeetee eageegg tggagete tetagtg tggageee ageeate agagggtg etegeee geeeggea tteaaga tegtette acteece ggggeett eacttaa atgettte agtttte tettagat agtattg gtaettaa	ted tggtgagect ecc cactgettee ege acatggtgeg eac teegecetee ege ggggeegeag ege tetegeettga ege tetegetgta ege egatgatgga ege ceaettgta ege egatgatgga ege egatgete	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg	120 180 240 300 360 420 480 540 600 660 720 780 840
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc tacccetgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg	teegget teetteag ggaacte eteggaac eegtget ettgeeac teteece ggeeete eageegg tggagete tetagtg tggagee ageeate agagggtg etegee geeeggea tteaaga tegtett acteecg ggggeett eacttaa atgettte agtatte tettagat agtatte teetagat acteetgt taacatet	ted tggtgagect ecc cactgettee ege acatggtgeg eac cacgaggggg ege teegecetee gg gggeegeag ege tetegetgta ege tetegetgta ege tetegetgta ege tetegetgta ege tetegetgta ege tetegetgta ege egatgatgga egt ceaettgta ege egatgatgga egt egatgatgga ett egatgatga ege egatgatgga ege egatgatgga egatgeaggag	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagag	120 180 240 300 360 420 480 540 600 660 720 780 840 900
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc tacccetget eg ggeteegtt ttg geetgegea gge gegteteett gtg gagegaagaa att gegaegggt etg gagegeget tee geeteattet tag gtgtataatt tat agteeetet tee attgttgtaa atg gtgtatgtgt tag teeetteee ttg acagetegte tgg acagetegte tgg acagetegte tgg	teegget teetteag ggaacte eteggaac eegtget ettgeeac teteece ggeeete eageegg tggagete eetagtg tgggaeee ageeate agagggtg etteage geeeggea tteaaga tegtett acteece ggggeett eacttaa atgettte agttte tettagat agtatte tettagat acacetgt taacatet taageet tgttetaa	ted tggtgagect ecc eactgettee ege acatggtgeg eac teegecetee ege teegecetee ege ege ege ege ege ege ege ege ege	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagag ggaggccagg	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc taccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc tgg cgcggtggct tac	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc agccatc agagggtg ctcgcc gcccggca ttcaaga tcgtcttt actcccg ggggcctt cacttaa atgctttc agtttc tcttagat agtattc tcttagat taagcct tgttctaa tcacctgt taacatct taagcct tgttctaa tcctgta atcccagt	ted tggtgagect ecc eactgettee ege acatggtgeg eac eacgaggggg ege teegecetee gg gggeegeag ege tetegetgta eac ettegetgta eactegeage ege tetegetgta eactegeage ege tetegetgta eactegeage ege ege tetegetgta eactegeage ege eacttgta eactegeage ege eacttgta eac egatgatgeete ett aaggeaggag ege attgtttaa eac tttgggagge	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agcatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagag ggaggccagg ggatgaactg	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc taccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc agccatc agagggtg ctcgcc gccggca ttcaaga tcgtcttt actcccg ggggcctt cacttaa atgctttc agtttc tcttagat agtttc tcttagat agtactg taacatct taagcct tgttctaa tcctgta atcccagt gagacca gcctggcc	ted tggtgagect ecc eactgettee ege acatggtgeg eac teegecetee gg gggeegeag ege tetegetgta aaateegaaa etc egatgatgga ege ecaettgta ege ecaettgta ege ecaettgta ege egatgatge etcaettgta ege egatgetgeteett aaggeaggag egatgeteett aaggeaggag attgtttaa ec ettgggagge eacae eatggtaaaa eac eatggtaaaa eac eatggtaaaa eac eatggtaaaa	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagag ggaggccagg ggatgaactg actagaaata	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc taccctgct ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacgggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc caaaaattag ccg	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc agccatc agagggtg ctcgccc gccggca ttcaaga tcgtcttt actcccg ggggcctt cacttaa atgctttc agtttc tcttagat agtttc tcttagat agtcctgt taacatct taagcct tgttctaa tcactgt gagccatc	tggtgagcct cc cactgcttcc cgc acatggtgcg cac cacgaggggg cag tcccgcctcc gga gggccgcag cgg cgtcaccttg cag tctcgctgta cag tctcgctgta cag tctcgctgta cgt acattgtaa cg tcacttgta cgt cacttgtaa cg tcacttgtaa cg tcacttgtaa cg tctgatgga cgt ccacttgtaa cac tggatgagg cac catggtaaaa cac ctgtaatcc	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct agctactcgg	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagag ggaggccagg ggatgaactg actagaaata gaggctgagg	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc tacccetget ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc caaaaattag ccg caggaggatc gct	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc agccatc agagggtg ctcaaga tcgtcttt actcccg ggggcctt cacttaa atgctttc agtttc tcttagat agtttc tcttagat agtactg taacatct taagcct tgttctaa tcacctgt taacatct tcagcc gccggca ggaacca gcctggca gggggtgg tgatgggcgtg	ted tggtgagect ecc cactgettee ege acatggtgeg eac cacgaggggg ege teegecetee gg ggggeegeag ege tetegetgta aaateegaaa ege egatggaggeegeag egatgetgta aaggeaggag egtagetttaa eggaatgeete aaggeaggag ettgtttaa eggaatgeete ett aaggeaggag eattgtttaa eac etggaatee eac etggaatee eggaggggeega ettgtaatee eac etggaatee eggaggggeega eggtgeagtg	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct agctagtcgg agctgagatc	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctccct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagg ggaggccagg ggatgaactg actagaaata gaggctgagg gcgccattgc	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140 1200
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc tacccetget ccg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc caaaaattag ccg caggaggatc gct actccagcct ggg	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc agccatc agagggtg agccatc gccggca ttcaaga tcgtcttt actcccg ggggcctt cactta atgctttc agtttc tcttagat agtttc tcttagat agtattg taacatct taagcct tgttctaa tcacctgt taacatct taagcct tgttctaa tcctgta atcccagt gagacca gcctggcc ggcgtgg tgatgggc cgacaga gcgacact	ted tggtgagect ce cactgettee ge acatggtgeg ac cacgaggggg tee teegecetee gg gggeegeag eg tetegetgta aaateegaaa et egatgatgeat ceattgtaa ag ggaatgeet aaggeagggg attgtttaa attgggagge attgtttaa et ttgggagge acatggtaaaa et etgtaatee ggaatgeet eaa catggtaaaa eae etgtaatee ggatgeagtg	gactccctg tctgtcctgc agccatgcgc aggggtggac ccaggtccgc ttctagggg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct agctactcgg agctgagatc aaaaaaaag	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctcct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagcagg ggaggccagg ggatgaactg actagaaata gaggctgagg gcgcattgc taaataaaga	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080 1140 1200 1260
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc taccctgct cg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc caaaaattag ccg caggaggatc gct actccagct ggg taaaactgta ctt	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc tcagcc gccggca ttcaaga tcgtcttt actcccg ggggcctt cactta atgctttc agtttc tcttagat agtttc tcttagat agtattg taccact taagcct tgttctaa cacctgt taacatct taagcct tgttctaa tcctgta atcccagt gagacca gcctggcc ggcgtgg tgatgggc tgaaccc aggaggcc cgacaga gcgacact gaagact gtaaagtt	ted tggtgagect ecc cactgettee eacatggtgeg ac acatggtggg eac teegecetee gg gggeegeag egteacettg agg tetegetgta acateggaaa eccaettgta egg egtagetget eacettgta egg egtagetget eacettgta egg egtagetget eacettgta eac egatgatgee attgtttaa eccaettgtaa eccaettgtaaa eccaettgtaaaa eccaettgtaateece ega egttgeagtg ect geeteaaaaa eccaettgaaaa eccaettgaaaa eccaettgaaaa eccaettgaaaa eccaettgaaaa eccaettgaaaa eccaettgaaaa eccaettgaaaaa eccaettgaaaa eccaettgaaaaa eccaettgaaaaa eccaettgaaaaa eccaettgaaaa eccaettgaaaaa eccaettgaaaaaa eccaettgaaaaaa eccaettgaaaaaa eccaettgaaaaaa eccaettgaaaaaaa eccaettgaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct agctactcgg agctgagatc aaaaaaaag ctccttggtt	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctcct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagccagg ggaggccagg ggatgaactg actagaaata gaggctgagg gcgcattgc taaataaaga tttactccag	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260 1320
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc taccctgct cg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ccg gagccgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc caaaattag ccg caggaggatc gct actccagct ggg taaaactgta ctt acttctttta ttg	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc agccatc agagggtg agccatc gccggca ttcaaga tcgtcttt actcccg ggggcctt cacttaa atgctttc agtttc tcttagat agtttc tcttagat agtactg taacatct taagcct tgttctaa tcctgta atcccagt gagacca gcctggca ggcgtgg tgatggga tgaaccc aggaggcg cgacaga gcgacact gaagact gtaaagtt gtgccat cgccattg	ted tggtgagect ce cactgettee acatggtgeg ac cacgaggggg tee cegeetee gg gggeegeag eg teeegeeteg ag teeegeeteg aatecegaa eg teeegeeteg aatecegaa eg teeegeete aatecegaa eg teeegeete aageegegggg attgttaa eg ggaatgeete aaggeagggg attgtttaa ee tetgggagge acatggtaaa ee cegtaateee gg ggttgeagtg eet geeteaaaa ega ttetgataa tgg gaettggtaa	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct agctactcgg agctgagatc aaaaaaaag ctccttggtt agagcacctt	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctcct aatctcgctg ctctcctaca gattgaaaac aggcacctca ttttcaggcg gagagccagg ggaggccagg ggatgaactg actagaaata gaggctgagg gcgcattgc taaataaaga tttactccag gggacccaaa	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260 1320 1380
<211> 16146 <212> DNA <213> Homo sap  <400> 2067 gtgtggggtc act ttcacttgtg tgc taccctgct cg ggctccgttt ttg gcctgcgca ggc gcgtctcctt gtg gagcgaagaa att gcgacggggt ctg gagcgcgcgt tcc gctcattct tag gtgtataatt tat agtccctctc tcc attgttgtaa atg gtgtatgtgt tag tccctttccc ttg acagctcgtc ttg cgcggtggct tac aggtcaggag ttc catagtttcct tgg cgcggtggct tac aggtcaggag ttc caaaaattag ccg caggaggatc gct actccagct ggg taaaactgta ctt acttctttta ttg ggcatggtaa gaa	tccggct tccttcag ggaactc ctcggaac ccgtgct cttgccac tctcccc ggccctcc cagccgg tggagctc cctaggt ctttgcat tctagtg tgggaccc tcagcc gccggca ttcaaga tcgtcttt actcccg ggggcctt cactta atgctttc agtttc tcttagat agtttc tcttagat agtattg taccact taagcct tgttctaa cacctgt taacatct taagcct tgttctaa tcctgta atcccagt gagacca gcctggcc ggcgtgg tgatgggc tgaaccc aggaggcc cgacaga gcgacact gaagact gtaaagtt	ted tggtgagect ce cactgettee acatggtgeg ac cacgaggggg tee cegeetee gg gggeegeag eg teeegeete aaateegaaa et egatgatgea attgtttaa aatggagge attgtttaa et ttgggagge actggtaaaa et et ggagtgagge egtgagtgtttaa eg ggttgeagtg egtgagtge attgtttaa eg ggttgeagtg eg gettgaatee eg ggttgeagtg et geeteaaaa ega ttetgataa tga gaettggtaa attttaatat	gactccctg tctgtcctgc agcatgcgc aggggtggac ccaggtccgc ttctaggggc ccttccgagg atggcctgca cgtaactgtc agccatgtcg agcttcattt gactagtgga ttggtttcc ctgatgaaga agataaaact cgaggtaggc ccccgtttct agctactcgg agctgagatc aaaaaaaag ctccttggtt agagcacctt tgttttagag	cctattgccc tagggacgta ggggcgtgcg cgcaaagcca gcctcacccg ggagcctgga gtggaagatg acccctcct aatctcgctg ctctcctaca gattgaaaac aggcacctca tttcaggcg gagagcagag ggaggccagg ggatgaactg actagaaata gaggctgagg gcgcattgc taaataaaga tttactccag gggacccaaa cgcttggtgg	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260 1320

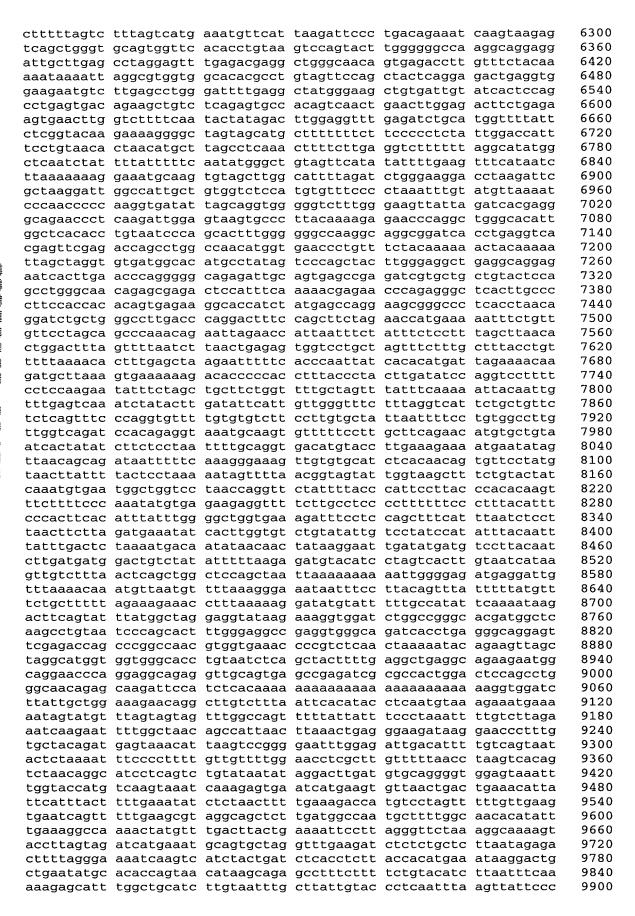
acaagtatgt tctccttagt aaaaatcaga gtccccagaa tcaccatccc caatcccatg 1560 cccctcccca atgacaagta ctgttatcat ttgcacgtac atcttctaat attctgttta 1620 1680 tgtagaagta tgtgtacttc attatgtatt ttatactcat gtaacatact gttttataaa acagatacta tttatcaata cttttttgta gcttgctctt ttaaattcct ttcagtgtaa 1740 gtagataaca ctgccccttt aactgtcaaa tattatcctg taccttaatt attttataat 1800 ttaattatgg ctgtattgat agtttctttc cattgttttt gcagttacgg tgttgaaaca 1860 aaaactagtg tctacctgtg cttctagtgt ttctaggggt agatacatgg tttggttacg 1920 1980 tggtgtatgt attgaaaaca tttgatgaat ggataccaca aaatagctat ccagagtgtt 2040 tatacactag cactgtgtga gaatactgat tgatccatgc attcttcaag atgtgcttat 2100 qtcttaactt gaaccaatta tgttcccttt aggacaaaat tcttctaagc agtggacgag 2160 atgcctctct tatggtaacc aatgatggtg ccactattct aaaaaacatt ggtgttgaca 2220 atccagcage taaagtttta gttggtaagt ctgaatatac tttttcacca acctaataat 2280 actigttigtt aacattitig aaataactti ataaataggc tigtigtigacc aatcgtactg tcaattgatg tccactagtt gttaattatc gttgttaaaa tacaagcttc aggagtgccc 2340 gtatgttggt ggtaaaactg ttgcatttca gacctcagag ttccaaataa tttgttgaat 2400 gaggaaccct ggtaagttta gattggtagt gaatattttt ggagaattta gtaagcaaag 2460 aagcaatttt gagttaataa ctaatttctt tttctagata tgtcaagggt tcaagatgat 2520 gaagttggtg atggcactac ctctgttacc gttttagcag cagaattatt aagggtaaga 2580 gcaactaagc aactcttttt tcctactgtg tttttgagta tcagaggtaa tctagtcctt 2640 acttcctctg tctttactat tgaggagtgc ttaataattt tctatttata acttttgttt 2700 tataacttta ttaataggaa gcagaatctt taattgcaaa aaagattcat ccacagacca 2760 tcatagcggg ttggagagaa gccacgaagg ctgcaagaga ggcgctgttg agttctgcag 2820 ttgatcatgg gtttgtatag caaagtacta ctgttctaaa catttagtgt tctttcataa 2880 2940 catgcttaat gcaagaaatc tataggacac tgaaaagcat acacaaagat catcttgctg cctcacccca ctccaacagt caaacctaca tcagcctcca gagatagcca ctaaagttaa 3000 gtttgggttt ttagtctttt tgtatatatc atcaaaatat acaaataaag caaatagtat 3060 aatactgtat agagaatttg ttagcctctt tttaacctag ttaaatatta agcacatttt 3120 tggatgtcaa ttttctgtgc agtattttaa tagagttaca catttgaata tttggctaga 3180 atgactgtat taacctatct gtagggggag atttgtgtat ttgatgattt ttagcattat 3240 aaaataactt tgtgacgttg cgacatagcc caaaggtttc tagaagtgta attgttgggt 3300 ccaaaggtaa gtgtgtgtt tttaaggcac ccccaaacct gggctgcaca gcaggtgagc 3360 agcaggtgga aaaattgtct tcccatgaaa ccagtccctg gtgccaaaaa ggtccgggac 3420 3480 cactgtttta aggcacttct atttatttgc ccattcacaa ctgtataata atacttgttt 3540 ttcacgtcct tttatttatt tatttattt gagacggagt ctcgctctta gagttgccca 3600 qaatqqaqtq cagtggcacg acttcggctg actgcaacct ctgcctcccg ggttcaagcg attctcttgc ctcagcctcc caagtagcag ggactacagg catgtgccat catagccagc 3660 taattttgta tttttagtgt agatggggtt tcaccatgtt gctcaggctg gtcttgaact 3720 gacctcaagt gatccatcct cctcagtctc ccaaagtgct aggattacag gcgtgagcca 3780 3840 ctgtgcccgg ccatttctca cattcttgcc aacattagac ttttgcatgc ttgtgtggcc 3900 cccaccctc ttttttttt ggcattttgc cagtttggtg gggaaaataa catctttaat 3960 ttgtgtttct tgattactgc tgaggtttaa ttcttttcat atagcttaca gacttgatca 4020 gttagggtaa aattatctat tgacatgaat atctagataa attttgaaaa gtaaagtagg gttaatatgt atatttggtt ggttttattt agttccgatg aagttaaatt ccgtcaagat 4080 ttaatgaata ttgcgggcac aacattatcc tcaaaacttc ttactcatca caaagaccac 4140 tttacaaagt tagctgtaga agcagttctc agactgaaag gctctggcaa cctggaggca 4200 4260 attcatatta tcaagaagct aggaggaagt ttggcagatt cctatttaga tgaaggtatg tatgaatgtc agatacaaga agctttgatt agatgctgag ggctgaatac tgagtgaatt 4320 4380 ctgttttgag accagtgacc ctttacaaag ccagtgaact tgaatttaag gacatatcat atgtgcaacc atttttgtca ttttattgac agtgtactcc tcttcccgcg ctattccagc 4440 4500 attgttgatg atctctagag tttacttaac taccatgaag ttatttgcag tctctgataa 4560 agaggaaatg ttttctttta ctagaaatca tctattctca aatggtactt ttaccaggat 4620 tatatgtatt ctccaggaag ggtctgggtc agtcaaatca ttgtgttagc tggttgttga 4680 ggatgtacag ttgaccattg aacaacatgg gtttgaatta tgtaggttca caatgcaggt 4740 tttttcaata aatatagtca gccctttgtg tccgtggttt gcacatgtgc aaccgaacgt ggatggaaaa tgcagtattt gcaggatttg aaacccatgt atatagtggg ccagcttttc 4800 4860 aaatctgctg gttccagtca gcctggaact taagtatgtg gggattttgg tgtatgtggg cgtcttggaa ccagtcccct tcgtatactg ggggatgact agttttttt agaaaagaat 4920 4980 taaaaaaaat ttctttaaca aataattatg tatgtttata gggcaagagg atctagttct 5040 taaagagtga taaatgagac ataataagta ctgctttctt agtagtacat ttttgtttag 5100 agtgaagttt tccagatcat cttcacatta tatttacttc acaaaatggc ctgtcaaaaa gtataggcat tcttatatag agaaggaaaa aaaaagaatt agatggtgct ttacaacttc 5160 tgtttttacc agtggtttgg agtcctggtt ttgttctgtg tcataggtct tgatttattt 5220 5280 taagagagag tcataattct gaaaatactc ttgattaagt ttatatacaa gagctgtgta 5340 gcatttcttt tttttttt ttgagacgga gtctggctgt gtcacccagg ctggagtgca 5400 gcagtatgat ctcgcctcac tgcaaccact gcctcctgag ttaaggcgat tctcctgcct 5460 cagcctcctg agtaggtggg attacaggcg tgtgccacca tgcctggcta acttttttgt 5520 atttttagta gagacggggt atcgccatgt tgaccaggct ggtctcgaac tcctgaccta 5580 aggggatcca cctgcctcag cctcccaaag tactgggatt acaggcgtga gccaccatgc 5640 ctggccgctg cgtagcattt ctgatagggg ctggtggtag ggaaggagca ttaaaacaag 5700 aatattagta gcacaagcag caccattctt gaatgtctgc tctgtactag gaattgtaat 5760 aggaacttta gtcatttagt catcatgacc tggtgagtga ggattaggtt cacttgaata gagtagaaaa cccaagataa tggtggcttc ataatggaaa agtttctaat gtaaccaaaa 5820 5880 aaaggcctag aaaggtaggt ggtactgggt ttgtatgatg gttccaaagc agcaggacta 5940 ggctggtaac tagcacctct gctactggtt acattcctgt tttacaaatt agcattctg 6000 gttggataat ttgtcgaagg ttatatagcc agcagcaggg gcatgatcag ggtcagattt atctgactcc acggtgtcca tggtttttcc atttttacca ccagcctcaa tacctgaatc 6060 ttcaattttt ctcttgtggt ggtgatttta agctaataaa aatataggac ttaacctatt 6120 gtctttatat tgcaacccat acagatgtgg gtgtagcgta tatctgaaac aaaagtttca 6180 aaatactgtt taattttatt gtctgtactg tgctcttata ttttctgttt catatttttt 6240 aagtaaccca ttaaattgat tttgtaataa ctcttctagt gggatgcttt ataccagaag 6300 tgtccaagga agagaataca gtcatgggtt cctagtttct gtttctggtt gggtcggtaa 6360 agccccttcc tcctccctct tttctgctta tcactagaga cagaaactaa aatccatggc 6420 tttcaggcgc taaaagccta aaagcaaaac aacaacagaa taaggcaggt tggacaagct 6480 tgcttttatg ccttctaaga gcttggtaaa ttggacttaa atagcttctt tgaaacagtg 6540 6600 atatgataaa gcagacagct ttttataaga tttactaagg ctgctttgaa gtattaaata 6660 tgatactgtt cttatattta ttgtaggctt cctgttggat aaaaaaattg gagtaaatca 6720 accaaaacga attgaaaatg ctaaaattct tattgcaaat actggtatgg atacagacaa 6780 aataaaggta tgtaactcta ctttttaaaa attaaaatta ctgcccaggc agagtggctc atgcctgtaa tcctagcaat ttgggaggcc aaggtggtgg atcatctgag atcagaagtt 6840 tgagaccagc ctgaccaaca tggagaaacc ctgtctctac taaaaaaaaa aaaatacaaa 6900 attagctggg catggtggcg catgcctgta atcccagcta ttcgggaggc tgaggcagga 6960 gaatcacttg aacccaggag gcggaggttg cactgagccg agattgtgct actgcactcg 7020 7080 agcctgggca acaagagtga aactccgtct caaaagtctc aaaaaaaaa aaattgctgg 7140 attctataaa ctcaggaatc aattgcacta aaaagcttgg aataggtatg aatctattgt 7200 gtatatacac atatatatac gttggtaaaa atgttgaaat atgctatggg actctttaaa 7260 aaqaqtaatq aggcctggcg tggtggttca cgcctgtaat cccagtactt tgggaggcca 7320 qqcqqqcqqa tcacaaggtc aggagttcaa ggccagactg accaatgtga gatggtgaaa 7380 ccctgtcttt actaaaaata caaaaattag ctgggtgtgg tggcgcacac ctgtaatccc 7440 agctgcttgg aaggctgagg caggagaatc acttgaaccc agcgggtgga ggttgcagtg 7500 agccgagatt gccccactgc actccagcct gggcaacaga gcgagactca atctcaaaaa 7560 aaataatgaa actgatgctc tctttatgct tcgtttgtct tagatatttg gttcccgggt 7620 aagagttgac tctacagcaa aggttgcaga aatagaacat gcggaaaagg aaaaaatgaa 7680 ggagaaagtt gaacgtattc ttaagcatgg aataaattgc tttattaaca ggtctgtgtt 7740 tgcttttaag aaaggatttt tttccatgaa agtttatgga atacttcata tttacttata ttgaattaga ttttttacct aggaactgtc ttagataact tcacttaaat tatggatttt 7800 tgtaatcagt aaattgtgat ttatgcacac ttacagtgac cagaattacg ggattgattt 7860 atacagttac tataataaag aacacttctt ttcatactag taatggatgc attagtacta 7920 tagttgataa actctaatta tataggtaag aaatgcaatc ttgttctaat ttgcatttct 7980 tttacttgtg gtaaaaatgt ttacatgttt tttagtctaa tgtagtttat cttgtaacag 8040 ttgtgagcat aatgttttca tgtaaaatat ttacaggcaa ttaatttata attatcctga 8100 acagetettt ggtgetgetg gtgteatgge tattgageat geagattttg eaggtgtgga 8160 acgcctagct cttgtcacag gtatggaaaa aaggtattgt tttctaacaa acacaatagt 8220 cactcttgaa tttgttattt gttactatat gcaactacct ttaaggagtt tagaatttca 8280 gcagttattc tgaaatctat tctcttggat acctttaatt tagatacata gatacattac 8340 8400 atttacgata ccaagttata taccacattt gccgtaggta tagatttctt tcattgtgtc 8460 actgttttaa aggtagattt ttggccaggt gcagtggctt gtgcctgtaa tcccagcact ttgggaggcc gaggcagcca gatcgcttga gctcaggagt ttcagaccaa ctttggcaac 8520 attgcgaacc cacatcccta caaaaaaaaa aaattggcca ggtgtggtgg caagcgcctg 8580 tgatcctagc cacttggggg gaggctgagg gaagagaatc gcttgagcct gggaggcaga 8640 ggttgcagtc agcggagatc gtgccactgc gctccagcct tggcgacaca gtgagaccct 8700 gtctcaaaaa aaaaaaaaga tatgtatatt tttttctcac aaacctgtaa gaccgttgtt 8760 aaaatctgaa caaactagag ctttaaaaaag tcttaagtct acttacattt atctagttcg 8820 tacatttgtt tttattgctt agtaagtagt tgaatgcttt gtgtcctttg tagtagtaca 8880 8940 gttacaatag taacctttat tgaacattta ctgtgtgctg gagagtgggt caagtactga 9000 aacattgctt ttgttaattt taaaaaattt ctgaaagtaa taaacgttag catacgtgaa 9060 acaatcaaca ttgtataatg aaaattagta tacctcaata ccctttaata gaagtatgag 9120 tgatataatt ccagttgtgt caaatagaaa ttgtgtttat aaatcagaca tgtctgtcta 9180 catcacaatg acatgagttc aggctggttg cggtggctca tgcttgtaat cccagtgctt 9240 tgagaggcca aggcaggaag attgcttgaa gccaggagtt caagaccagc ctgggcaata 9300 tagtaagact gtctctacaa aaaattagct gggcgtggtg gcacatgcct gtagtcctag 9360 ctacttggga ggttgaggca ggagatctct tcagcccagg agtccaaggc tacagtgagc 9420 tgtgatcacg tcactgcagt ccatcctaag tgacagagca agaccctgtc tttaaaaaaaa 9480 aaaaaaaaa tgcagcttgt ttgcttttta ttgtggtaat ggtttaaaaa ttattgttta 9540 ttaaattttt acagatttag ggatataagt atagttttgt taatggtttt catagtacac 9600 tctaagccct ggaaaataag tttaacactt ttctagattt taggtccttg aaaatgaatg aataggttgg aaagttggtt tgggaatgag aattaaggag acctgggtta tgagttgtga 9660 agtcagtagg gctgtcacac tgtttggaac tgccatgaat attagaagaa attatagtgt 9720 actaaccttt ggagagtgga cttggtctca tcccagaatg atctcttaag acgttttttt 9780 taatcatttg agaagcatag tcgtcttcta accaagagac attttccttt aattacttga 9840 9900 agtgggttta cttgctttaa agttacttag gagccattgc gtacttgatg ctttaaggtg 9960 acaaataaac acaatttaag atgctcatgt ttatgtaatt cattctttag ttccacaaaa taaagatgta agaggccggg tgtggtggct cacgccttta atcccagcac tttaggaagg 10020 cctaagtggg cagatcacaa ggtctggagt ttgagaccag cctggtcaat atggtgaaac 10080 cctgtctcta ctaaaaataa aaaaattagc caggcgtggt ggtgggtgcc tgtagtcgca 10140 gctactcggg aggctgaggc aggagaatca cttgaacccg ggaggtggag gttgcagtga 10200 gctgagattg gcgccactgc actccagcct gggtgacaga gcgagactcc gtctcaaaaa 10260 aaaaaaaaa aaaagatgta agaagtaaat ggtaataata tattgatggg ataaacatat 10320 10380 cgtaaggtct tgacatgaaa ttgctctata cccagaagaa tgtttattaa gtacaccaac tgtatgtcta tgaaggtgac cacatggtgg ctcccatcct taaaagctca gtggttgtca 10440 aaggtgtatg atgacattgg ttcttgcaag tgtcattaaa taaatgtctt gcactgggca 10500 tggtggcatg tgccagcagt ttgatctatt caagaggctg aggcagaaag attgcttgtg 10560 cccaggaggt tgtgctatga tggtgcctgg tgaatagtca ttgcgctcca gtctaggcaa 10620 ggtagcaaga cactctctct ttaaaaagaa agaaaagtct catgtagaag gatgaagtga 10680 aaagtttcat aagccaagtt agtcttattt ttggatatga cgtcccaaat atctgttgtg 10740 tctcacatct agaacacaaa gcagtctcag aattttgcca gccaaaagta aaaagaactt 10800 tatacaaatt atgagtataa attagtagtt tcaaagacca gagtctttat gaatttatta 10860 taaaataaat aatagagcat tgacagattt atcagtaagg cataggaaaa gaagggttga 10920 ttgataatat atgcaattca cattatgaaa ggagtagtca gctagagaaa aggattttga 10980 aatggaaacc tgacttttgc ttagttagga aatagggaac gaagtggctg acctgttcag 11040 tttacagcat ggaagatgga gggaaaatag gaatagaaat gagacataag gactaaatta 11100 attigtictt attaaattig gictgggaaa ticttagtat gcattictig tittittagg 11160 ccttaggaca tttcatttgt gataattaga gatatcaggt gcttattaag cagttcatga 11220 agtgtatagt ggttgactta taggacaaat attttcatgt cttgtgctgg gaattgtatc 11280 atgaggtctt agtcttatag gttggattca gaagagaatc tgaatttaaa ctcaaaagta 11340 11400 actgctttaa gactcagttt aaccttggga aggtagtatt gtatagtgtg tgcttatagg tctgaageca gactgcttga gtttgaaccc cagcttttta tattcatcct agttaggtct 11460 ttggatagga aggtaaacct cttggcctca tttttatcat gtgtaaaatg ggataataat 11520 ggagcctatc caagaggatt attttaaaga ttaaataatt agtcgatatg aagtatttaa 11580 aaagagtgcc aggaatataa tcagcaatca atttttaaaa tgtgaaacac attacctatc 11640 attatctatc cattactgct tattagaaaa caggaatttt aagcctgctg tgcatttaac 11700 taatacatgt ttatgtttat aggtggtgaa attgcctcta cctttgatca cccagaactg 11760 gtgaagcttg gaagttgcaa acttatcgag gaagtcatga ttggagaaga caaactcatt 11820 cacttttctg gggttgccct tggtgagtga ttatgtagat cctggttagg gtgtctaaat 11880 tcttgctagg ctctgttgaa gtaaaggtta ttgtagttac tagaatagca tatcttacaa 11940 gtcttaactc ttcagaagca tgatacatac tttgtttcag tctcttgagt caacctcata 12000 12060 tttaccgtgt ctttgtgaac agtgcatgtt caacagtttt ttttccttga taacttagaa ccattatgag ccttgattgt tggagaatgt ataatacagg aagacaggtc agctttcaga 12120 12180 acccagtaat ataaccaaca ccggcataaa taatagaagg caaacttttt atccctaagt 12240 ggtcactgtg tcttttaatt ttaggtgagg cttgtaccat tgttttgcgt ggtgccactc 12300 aacaaatttt agatgaagca gaaagatcat tgcatgatgc tctttgtgtt cttgcgcaaa ctgtaaagga ctctagaaca gtttatggag gaggtaagca tttagaaaat gttgaatata 12360 tttttaattt cttaaagtac aatataagtc ataagtggtt ttaatggttc ttacagaaat 12420 12480 cttatattgc ttttgcacta aattttaaaa tgcttggcat atcttaaagt cagtaattca



ggttct 16146 <210> 2068 <211> 100 <212> DNA <213> Homo sapiens <400> 2068 60 ggtggatcac ttgaggtcag gagttcaaga ccagcctggg caacatggtg aaaccccatc 100 tctactaaaa atacaaaaat tagctgggca tagtggtggg <210> 2069 <211> 1744 <212> DNA <213> Homo sapiens <400> 2069 attcaagget cactecagte cacgttteta getteegtet teeeteecet geacatacta 60 ctgcatgtac ctccacagtc ttcccttttg ctttgctggc atctcatgtc tttgttgcct 120 atccaagete cetgttgaaa ttetateeat aettataatt aacatgteee ttgatteata 180 cagactttat cagcctgccc ttagtttctg tcagacagaa ttaagtcctc tgttcccata 240 300 taaagcagat ctttatagct gttttagtag atattgttta tatatctctc tctttcacag 360 ccccttgtaa cccatctcat tcccatattc tctttcaacc cccatctctg attacagata gaaagggtga taagtttgtg ggctgtgtct ctttaatctt gtacctccac agcatctagg 420 acagtgtctt gcctaaagca aggatggaat taacatttgt taatagacgc ttatctgtca 480 gtcttactat cctcaccctg cttcataagg aaattatatt ttatttatat tttatttcaa 540 atcagtaata ctgcctgtca catcactaaa acctcaaaaa acagaaatgt ttgaaataag 600 aattttcagg tttgccttgt gataactgta tactaactag ttgaaagtat ggattcagta 660 tcttcaaagt gttctgattt gctaggactc actgttttct tgtgtttaat cttcagtttg 720 780 tgaggtcatt taatttgtag catttgcaaa tgttatactg aaaaactctg agaatgaaat aagtcactat actacgtatt tttataaata aggaagtgca caattatgtg acttcacatt 840 900 tcttgcttgc ttgctttttt tggggtgggg acagagtgtt gctctgtcac ccaggctcga gtgtggggtg gtgtgatctc tgctcactgc aacctcctat tcccaggctc cagtgatcct 960 tctgcctcag ctgggactac aggtatgcac caccatactg gctaagtttt atattttttg 1020 1080 ttgagatgaa gtttcactgt gttgtccagg ctggtcttga actcctgggc ttaagtgatc 1140 cacctacttc agccttccaa agtgctggga ttacaggcag gagccactgt gtccagctta cattttttgt ataatcaaca ttagccagag taaccacact ttagatctgt tggtcttcag 1200 gaaaagcaat atgtgtctgg atgtggtggc tcacacctgt aatcccaaca ctttgggagg 1260 1320 ccgaggtcgg aggatcacct gaggtcagga gtttgaaacc agcctggcca acatggtgga 1380 actccatctc tactaaaaaa aaaatacaaa aattagccgg atgtggttggt gcacacctgt 1440 aatcccagct acttgggagg ctgagacagg aaaatcactt aaaacccagg aggcggaggt 1500 tacagttagc tgagattgcg ccactgcagt ccagcctggg tgacagagtg agactctgtc tcaaaaaaaa agcgaagtta catgcaataa aatcacacag aaaaattatt tttaataaaa 1560 aattaaaaca attgacagat atcagttata tgatttattg ttccaactgt tatatgtgta 1620 tttctgagtg ccctttggct tcttgcccgg tggtacttga agtcatagga taaacatggc 1680 1740 atattttcct taagtgtcaa tattactcaa caaatatagg ttaaaaaaagc attctatctg atgt 1744 <210> 2070 <211> 94 <212> DNA <213> Homo sapiens <400> 2070 acgtgcaggt ttgttacgta tatatacatg tgccatgttg gtgtgctgca cccattaact 60 cgtcatttaa cattaggtat atctcctaat ccta 94

<210> 2071						
<211> 199						
<212> DNA						
<213> Homo	sapiens					
<400> 2071						
tgcaacctct (			_	-		60
attacaggca						120
catcatgttg		tctcgaactc	ctgacttcag	gtaatctgtt	ctccttggcc	180
tcccaaagtg (	ctgggatta					199
<210> 2072						
<211> 11597						
<212> DNA						
<213> Homo	sapiens					
<400> 2072						
cggtcacgta a						60
tttcttagaa	-					120 180
ggcttaaagt						240
tcgtggagta ( tggagtgtac						300
ttgttcttaa						360
tactgaagaa						420
tgtgggtttg						480
tattggacag						540
atataaatgt						600
aacagtttct (	gcatgtactg	agccgcaagg	acaagactgg	aatcgttgtc	aacaatccta	660
accagtcagt	gtttctcttc	attgacagac	agcacttgca	ggtaagcagc	ttttttgaaa	720
accacttaca (	ggctcattca	aaaacttatt	ggttagtaaa	cgttttatat	acaagttact	780
taattgttgt						840
ggctgggcat						900
ttgcttgagc						960
gaaaatataa	_			_		1020
gctgaagggg						1080 1140
cagcttgaat (				_	_	1200
ggcaagcctt						1260
gtcatgattc						1320
tgggcaatgg						1380
aatcagagtc						1440
aagcactgac						1500
gtgccgtggc	gcaatctcag	ttcgctgcaa	gctccacctt	ccgggttcac	gccattctcc	1560
tgcctcagcc						1620
tttttttt						1680
tctcctgacc						1740
gccaccgcaa						1800
ccacatttat						1860
gcattttggg a gtgagacgac						1920 1980
tggtcctagc						2040
gttgcagtga						2100
caaaaaaaaa					_	2160
agtattgcaa						2220
actgctgtga						2280
tttaacgtaa						2340
ataggtttat						2400
gccttttaga	ggtgctagat	agtgaagaaa	agatgaactt	tgtaattaag	ttggatgttc	2460
aaatggtaac						2520
ttctagtccc	ttaccccagg	atatgcttaa	atcttttatt	tattttttga	gacaaggtct	2580



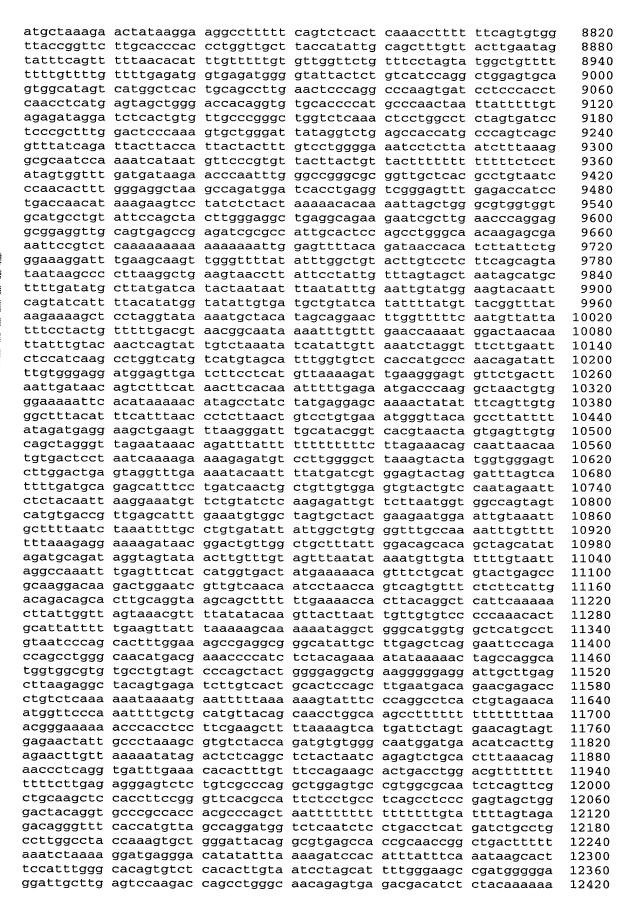


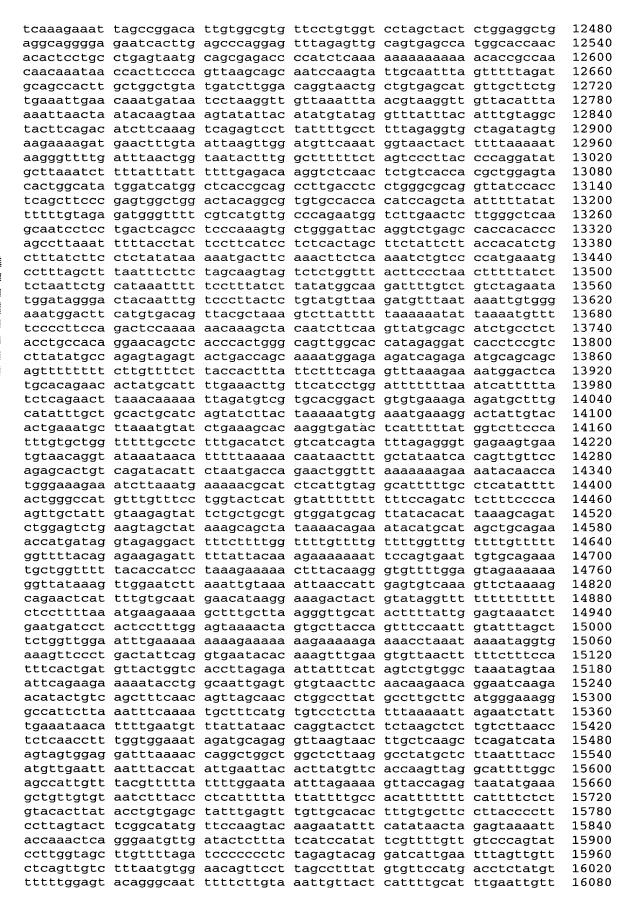
atgaagaggg	actgaatgtt	tcttaaqtaa	acttgataaa	atatttagat	tccttaaaaq	9960
cctacattgg						10020
cgggcagatc			_			10080
			catggtggca			10140
ctcgggaggc						10200
			acaaagcgag			10260
			ctcatatcta			10320
_			cttaggtgga			10380
			gaatggggct			10440
_			tgaccctgag		-	10500
			gtcacaggga			10560
	_		aggtgggtgg			10620
aagaccagcc	tggccaacat	ggtgaaaccc	cgtctttact	aaaaacacaa	aaattagccc	10680
agcatggtgg	cgcacacctg	taatcccagc	tactagggag	gctgaggcag	gagaattact	10740
tgagccccag	aggcggaggc	tgaagtgagc	cagattgtgc	cgctgcactc	cagcctgggt	10800
gatggggaga	ctccgtgtcc	aaaaaaaaa	aaaaacccca	gcaatggtgt	tcagtttgtt	10860
agagtaagat	tataatgtgt	atatgaactc	taactttact	ttgaattgta	tgtactcaat	10920
acaatcctca	tagtgttata	agtggtattt	ttaaaattaa	ataatattta	ttttttgtag	10980
agatgggggt	cttgaactcc	aggcttcaag	caatcctctt	gcctcggcct	cccaaagtgc	11040
tgggattata	ggcgtgagcc	actgcgtctg	gccctgaatg	gcacttttaa	ggactgtatg	11100
aaacagttat	gagccatcag	tttgtgattt	ttccccctgc	atcagtatac	acattaaaag	11160
ctgaatgttg	ctcttttgaa	tgtttgggat	cattcccttt	ttactattga	tacacactgt	11220
acttgcaaat	taactgctct	agttctagat	tttaaggctg	gaatatttta	ggacaaaatc	11280
tataggtgca	gttaaggaga	taagcagcta	attgaatctc	atgcgttact	aataatataa	11340
atgtgtttag	tctcagttgt	ttagacagtt	atcacacaga	agggatttgg	aatacagttt	11400
ggatacatac	gttatgttca	tatcgacact	gactccgggt	gctccccttt	ccgtgcatag	11460
cagagccatt	gttgatatgt	tatctactaa	cgtggctgtc	aaaccgccgt	ggagagtgcc	11520
tattgcattg	gtatgctctt	cttctacttt	catttcacaa	atcactttcc	caggagcagc	11580
agagacaaga	gtaatct					11597
<210> 2073						
<211> 22073	<b>,</b>					
-010 - 511	•					

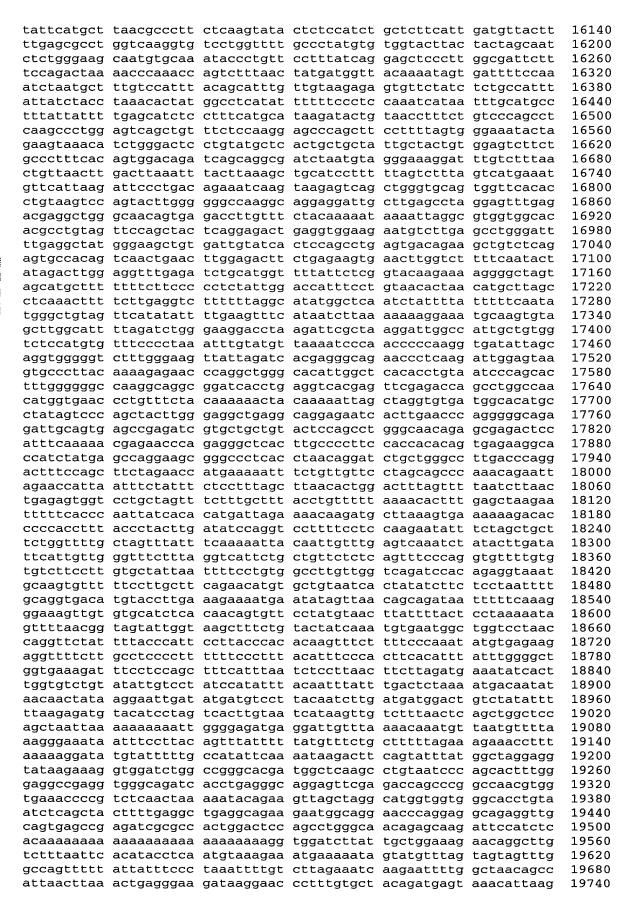
<212> DNA <213> Homo sapiens

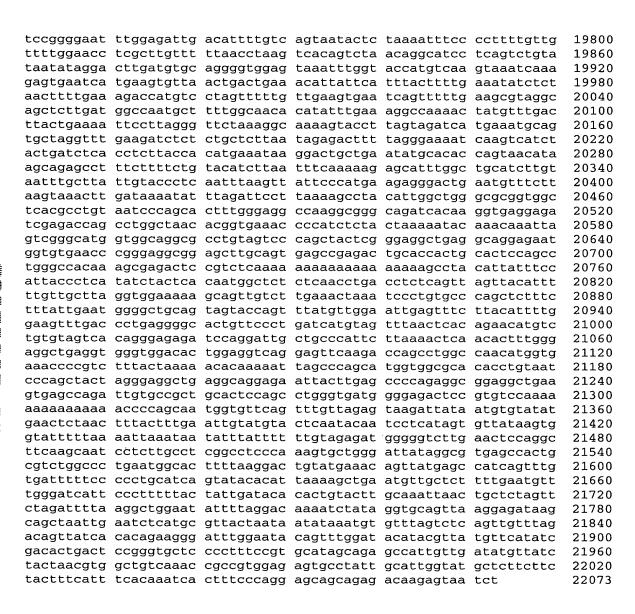
<400> 2073 accetetece geeegeteea eeegggeggg aattgtttee tegateaaat gagtgaaaae 60 120 ctgagtgatc ctgtgtctcc cgtggtgcga gtgagtcgct gccgctgaag gctaaggggt 180 gggggtggga cttgcggggg tggaaggcta ggtggtctcc gggctccgcc tgggatttgg gagaagaacc cgcctccttt gcctcggcaa tgctcacaag aagataaatc gcactcccca 240 300 ccattttgaa cgggggcaga tccacaggga agtctccctt ggggaatgta ggactagttg 360 caggctgggg gtgttgggaa cccgggcatt aatcaggtct aaccacagag ccggaataat 420 taataccgta ttatataccc cttttccttc tgccgtcatg attctccttg gcagcagcgt 480 tagcagccgc ctgagggtga aaatgtgggt gatggggaag ttggtaatga ctccgctgtt 540 ttttctcatg gctcctttgg gccacagctg cccgccccg gtatacactg tagttgattg cagggaaacc ctgtacctct ccctttcctt ctctaccgat tttgcacttt tctctatgct 600 660 caccaccaag tgtaatcaat aacaagcact gacaatacat agcaatagtg aaatctgaaa 720 taactaagaa ttaggtacta cagccatgga gctggctggg taaaatctaa ttggatattt 780 cagtttcatt cacctaccct gttttggtgt ttggttttgg ttttggtttt ggtgagtttt ttttttttt ttttttggaa agcaaggatc acacttcccc ctccctgttc cttaatccct 840 900 tttctaaaaa ggggggaaaa tccggatgga ttttagggat tggtctggtg tcagctgtgt 960 tttattgcac acctaaatcc tgattatagg cttttcattt ctccgcaaag cctttatttt 1020 ggcagttaag ccaaatgtgt tttccagaaa gttagttatt ttctcctctt tctttccttt ctttcctccc tttttcccgt ctgaccccaa acgttattgt ccaaacatga ctggacagca 1080 gcttttgttt cttgaccctg taatatgaca gtctgctaat attgacagaa ggtgcagttt 1140 1200 ttgggttata gtcgtgattt tcgctaatca atcatattag caggaaaaaa aatgacttgt ttctgttgta cttgagtctt aagaaaaagt gcccatagtt tagtgacaat ttccaaaggc 1260 tttagtacca cctgtatttc aaaatggggg acccaaactc ccggaagaaa caagctctga 1320 acagactacg tgctcagctt agaaagaaaa aagaatctct agctgaccag tttgacttca 1380 agatgtatat tgcctttgta ttcaaggaga aggtaattta aagttcttaa tggtgaatta 1440 gcacaagtaa tttttgtaag tgtatattat ttgttactct taaattatta tgaatattag 1500 gttaaagagt ggttgaaaaa aagtctgctt tgtatgctct gtttttcac ccttaggggt 1560 1620 1680 aaataaattt gagtctgaag cttagtagta gtatacactg agttgacatg gggtgggcaa 1740 gattacaaaa ttttatatgg agttaacatg ggaaacctta tgatggaatt taaagattat 1800 ctaatgtaga gtataaataa gatggttgaa agtgtgaaat tgtaatcaga ctgtttatat gctaaagttt atcctgtttc ttaaactgcg taatgtaggt aaccttttct cttacattta 1860 1920 atgaagtaga atacaccttt taggagcaat taaatactga aatggttaat ttgtgtttag aagtgtgatt ttctttttta cttagagttc attttgcctt gtatagaagt acagttttta 1980 aaaactcaaa atgacctaga ggaagtttca tttttagggg cggtggaggt cttaatcaga 2040 attagttccg cagttaaata gcaaacagta agttgtgagt agtcaaggat gggatgataa 2100 gagcagtatt ttttgcaact taaaatgaac attttcttaa attatcagca aggcttattt 2160 gaccaaagat gaggttatga atgtaaggaa gtgctacttg gattttggtg cttaaattgt 2220 tagctaattt cagatcagaa atacaatctt agtgtggtat ctattaagta tctggaagtt 2280 ttccaggttt ccccctactg tttaactctt attatttttg ttgctgagac aggcctcact 2340 gtattgccca ggctagtctt gaactcctgg gctaaagtga tcctcctgtc atggcatttt 2400 aaagtgctgg gattacaggc aggagctgcc acgcacagcc ccaactctta actcctaaaa 2460 2520 ggttatttgt atttaagaac attcttagct gctgaagtat agcattgtga agtgattttt 2580 aagtaatttt tgaagtgact gtcccaagat tgggtggtat caaggactta catctccact tttgttttgt tgacaagctg actcaaaatt gatgagattg gattttagtt gaagatgata 2640 cagtgtatgc tctttaaata aatccaagat aataagtagt gagaccatat ctttgtattt 2700 aatctatata ttgccccaaa ttgcaccatc ttaattcttt aacaccaacg ataatctggt 2760 tttattctgt gaatggacag tgtccatgca gttgccctga ataattcatg atatactt 2820 aatagtacag aattttaaaa agtagtttag tgatgcgtac ttggtcttga gtagtattaa 2880 aagagaactt ggtgtgcttc tttttagtct ttcaaatatt gatggttttg gctgggtgca 2940 3000 gtggctcacg gctgtaatcc cagcactttg ggaggctgag gcaggcggat cacttgaggt caggagttca aggccagcct ggccaaatgg tgaaaccctg tctctactga aaatacaaaa 3060 attagccagg tgtggtggcg caggcctgta atcccagcta ctcgagaggc tgaggcagga 3120 3180 gatcccctcg aacccaggag gcagaggttg caagtgagcc aagatggtgc cactgccctc tagcctgggc aacacagtga gactccatct caaaaaaaaa aaagaaaaac cagaaatatt 3240 gatggttttg ataatgtaat attgagaaag taatggaaat tggcccatat aaggaataaa 3300 actattcatt tgtctgaata gcgttgtttt aaaactggtg agatttttaa ttttaagaag 3360 tattgtccaa aatagtgcta tggataccat tatgctataa aactcaagca ttaaacattc 3420 taatgacagt ttgtacatgt atggttggag ggggaggtag gggaagaaca gaaggaatta 3480 cctatctgaa aatgtgtttt cagtgtataa gttactgcag acagttaaga attttgtgga 3540 gttaatgtta catgacattg taatatgaac tgagtgttaa aaggctgtgc tccctgtggg 3600 ttaatacacc attttctttt cttctagaag aaaaagtcag cactttttga agtgtctgag 3660 gttataccag tcatgacaaa taattatgaa gaaaatatcc tgaaaggtgt gcgagattcc 3720 agctattcct tggaaagttc cctagagctt ttacagaagg atgtggtaca gctccatgct 3780 cctcgatatc agtctatgag aagggtaagt tctgccttaa gtcttgactt gataaagttt 3840 ctgtggatta accttgcatt tccccgcccc ccgaaccccc cttaaagtgg atagttatga 3900 tagtgaccag tetetteagg taaatttgte tttgtgeeat gttgataaet gggateatga 3960 ctttaaagca ttgtgtttat aggattagaa aaacacgttt ttttacgcca gaccattctt 4020 atgtggatga agtatataaa gggatttctt taatctgtgt taggtgttga tgatctcgga 4080 cttttttttt tttttttt tttgagacaa agtcttgctc tttcgctgag gctagagtgc 4140 agtggcatga tettggetea etgeaacete tgeeetegeg catteaaatg atteteetge 4200 cttagcctcc cgagtagctg ggactacagt tgtgcgccac catgcctggc taattttttg 4260 tgtttttagt agagatgggg ttttgccatg ttggctaggc tggtctggaa ctcctgacct 4320 caagtgatcc tectgeettg geeteecaaa gtgetgagat tacaggtgtg ageeactgea 4380 ccctgccagt agccaactgt ttttaataat ttaagtgtta tgcagaaagt ttaaaaattt 4440 ttgaagtagg tttgtttttg aaaacttgac cttgagtaaa acatggacaa ctttgttgta 4500 ttaggctcat aatattgtgt attattattg tggataaatg tcttatgtct ccgtttattg 4560 tatttccttt tttgggggga atatgaatat aaggaagtgc ttccagcttt gtaaacttct 4620 gcaacatgtt aaaagttaat ctgggcatac ctgaaccaag agatccccac agttacttgg 4680 ggagaatgct ggagataacc agatactggt ctggaagaaa ttatggacct tcaaaaatta 4740 atatgctggc tacaataatg aagcagaagt caggaatgga gaaaagtagt tttctatcaa 4800 aataaaaata gcatttcagc tataatagga tagtgattca tattaggagt tctaagacat 4860 ctttttaaat agattgattt ttaaaggtgg aaataaaggt tcagggtctg acaatacaac 4920 4980 agatatcaga gattttgttg gagttttcac catgcactga taagtctagg tcttggtgtt 5040 aggagcattg gactgagtgt atgtgactct ctgtaagata aaaattaaaa ttagagccag gcacagtgac ttagcctgta atcccagcac ttcgggaggc tgaggtgggt ggatcacctg 5100











```
<210> 2074
<211> 1346
<212> DNA
```

<213> Homo sapiens

<400> 2074

ggaaggcett tttcagtete acteaaacet tttttcagtg tggttacegg ttettgeace 60 caccctggtt gcttaccata ttgcagcttt gttacttgaa tagtatttca gtttttaaca 120 catttgtttt tgtgttggtt ctgtttccta gtatggctgt tttttttgtt ttgttttgag 180 atggtgagat ggggtattac tctgtcatcc aggctggagt gcagtggcat agtcatggct 240 cactgcagcc ttgaactccc aggcccaagt gatcctccca cctcaacctc atgagtagct 300 gggaccacag gtgtgcaccc catgcccaac taattatttt tgtagagata ggatctcact 360 gtgttgcccg ggctggtctc aaactcctgg cctctagtga tcctcccgct ttggactccc 420 aaagtgctgg gattataggt ctgagccacc atgcccagtc agcgtttatc agattactta 480 ccattactac tttgtcctgg ggaaatcctc ttaatcttta aaggcgcaat ccaaaatcat 540 aatgttcccg tgttacttac tgttactttt ttttttttct cctatagtgg tttgatgata 600 agaacccaat ttgggccggg cgcggttgct cacgcctgta atcccaacac tttgggaggc 660 taagccagat ggatcacctg aggtcgggag tttgagacca tcctgaccaa cataaagaag 720 tectatetet aetaaaaca caaaattage tgggegtggt ggtgcatgee tgtattecag 780 ctacttggga ggctgaggca gaagaatcgc ttgaacccag gaggcggagg ttgcagtgag 840

•			,			
aaaaaaaaa agttgggttt ctgaagtaac tcatactaat tggtatattg ataaaatgct cgtaacggca	ttggagtttt tatatttggc cttattccta aatttaatat tgatgctgta acatagcagg	acagataacc tgtacttgtc ttgtttagta ttgaattgta tcatatttta aacttggttt tttgaaccaa	gcaacaagag acatcttatt ctcttcagca gctaatagca tggaagtaca tgttacggtt ttcaatgtta aatggactaa	ctgggaaagg gtataataag tgcttttgat attcagtatc tataagaaaa ttatttccta	atttgaagca ccccttaagg atgcttatga attttacata gctcctaggt ctgtttttga	900 960 1020 1080 1140 1200 1260 1320 1346
<210> 2075 <211> 2177 <212> DNA <213> Homo	sapiens					
<400> 2075						
			agtgcatgag			60
			cccgggctgg			120
			caccagcaaa			180
			tggggtgggc			240
			gatggcggcg			300
			gcaggccaga			360
			ggaggcctga			420
			cctaaagcca			480
			gggcgagcaa			540
			gcagaatgga			600 660
			gggacctggc			720
			gaggaccgtg cacgagaggg			780
			gatcatactg			840
			gttccctagt			900
			agagetecag			960
			cacaaagaaa			1020
			acacaaaggc			1080
			cagggagcag			1140
			cctaattctt			1200
			ctgatcctgt			1260
			atctgcctca			1320
			ggtcagtggc			1380
			ctggcagtgt			1440
			gaggatgggg			1500
			tgagtgtccc			1560
cggccccagg	gctggggccc	agatagccca	agaagcacag	ctacttgtaa	cttgaaaagg	1620
			gaagggccca			1680
			atcctactga			1740
			tggcttctgg			1800
			tttattccct			1860
			ttacctcctg			1920
			accagagcac			1980
			gccattgaca			2040
			cctcatgcct			2100
		aggtattggg	tatacttata	ctctataggg	tcgttgaata	2160
aatggcttag	aatytyy					2177
-010- 0076						

<210> 2076

<211> 2177 <212> DNA

<213> Homo sapiens

900

<400> 2076						
caaaagctga	cgacttcggt	ctgcgccgga	agtgcatgag	ctgccgatgt	ggtgcttagt	60
	tcggtcgctc					120
	gatggatagg					180
gtgaaaactg	agaaagaaca	ttaagggata	tggggtgggc	cagagcgggg	cgccatccct	240
	tgctagagct					300
	gggtgggcat					360
	cagatcggga					420
gctcaggagt	acccttggaa	gagtcgttag	cctaaagcca	gactaccacg	ggatccagag	480
gcggtattag	cttaggattg	aattgttcca	gggcgagcaa	gaggcgattg	atcctagctg	540
	agagatggcg					600
ccagggattt	tgctaggttt	ctgcactacg	gggacctggc	tgagttgcgg	atggagctct	660
	aggctggtgg					720
	cagcccaagg					780
gaacagagag	actctgaagt	tctacctgcg	gatcatactg	ggggccaatg	taagtgccta	840
cctccttgct	tctatgccca	cttatagtca	gttccctagt	cctcagccct	gcttggtgac	900
gaggagtggt	acccgaaaaa	gctctagaag	agagctccag	tcaaaaagaa	atgagagatc	960
	gaaagtgcta					1020
tgaatttgag	agctcttcct	acctccaagt	acacaaaggc	ttctttcctg	ggctgagttg	1080
ggtgtcagag	gagagtgggt	atttgggatt	cagggagcag	ggccctttct	tcaaccctgt	1140
	ttgctcctcc					1200
	aggtaacttc					1260
	acgttggtct					1320
ctccatcctg	ggaggtggat	gagtgcgtag	ggtcagtggc	tggcctttga	taccctcatt	1380
	agttggccct					1440
atgagctcga	tggcacgagc	agcgttctct	gaggatgggg	ccctgatgga	tggtggcatg	1500
	tggagcaggg					1560
cggccccagg	gctggggccc	agatagccca	agaagcacag	ctacttgtaa	cttgaaaagg	1620
	gttgcaactt					1680
	acaggcacct					1740
	ctctctatgt					1800
	gcatctaacc					1860
	taggctccag					1920
ctggttcact	gcagacagtg	gcaccccagc	accagagcac	aatgagaaac	ggcagcgccg	1980
acaggagcgg	cggcagatga	agcggttata	gccattgaca	ttgtggccac	aggccactgg	2040
	ctctgtcagg					2100
caggggccaa	aagcagtctg	aggtattggg	tatacttata	ctctataggg	tcgttgaata	2160
aatggcttag	aatgtgg					2177
040 05						
<210> 2077						
<211> 8925						
<212> DNA	•					
<213> Homo	sapiens					

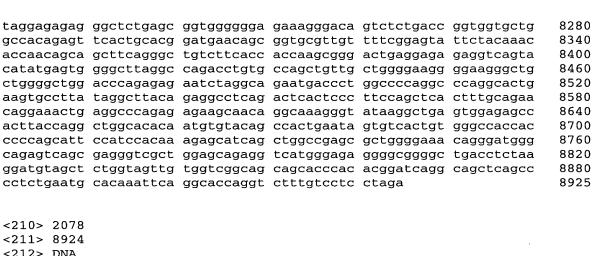
Homo sapiens

<400> 2077 gttggattag ctaagaaaat tttattttgc tccgtgcgtt caaggagctc acacacatgc 60 acatgcatat gcatgcacac acacacatac acacacactc acatgcatac acacacggct 120 aatactgctc aaggcatggc tcctgggcac agagttctgg ggccagaatt ctgctctggg 180 ccctcctcac tctgtcatct cctgcactgc agtccagggt ccagatagat ttccgggata 240 cagcaccttc acacctccag gccaggaccc ttgcttagtc ccagtgcctg caccaggtca 300 tctccgagcc cactcttcaa cgtccttctc actgcaggga cagagcaggg ttggaggggg 360 ttgatggggt tcaggtgggc agtgggattg tggggggtta cttacaagac ttgcggttgc 420 cgcgggaacg cttgcgttcc ctagcagcta aggcacgagg actgctcttg gtcactgact 480 gcaccagaag gtccatgatc tcatctgatg tatcactggg taaactggag cctgggggtt 540 cttctgggga tgcagtggag ggcccactg tgggcatgat tggggagctg ctctggacca 600 tgcctgagga aggccagata gcaaagtcag gccaaggtgg cactggagcc cattcccac 660 agctgctatg ggcctcacct ctgctgcggc gattgtgtgt ggtgtcctca ggcctgctgg 720 teageagact etteatacta geatgactgt cageatetee eeggeetgge eegetgetea 780 ctgctactgg gacagagggg ttgctggggg cttccccagc cacacctgag aacttctctg 840

tctggagaaa gaagaagggt gagctgggag gagcgaagga aaccaaggag gtggcagtca

agactaagac ctggaagggc acccacctcg gtgatcatgc gtccccgggt cttgttgcgc 960 tcacggtatg tggcctgctt ctgctgctgc tgtagcactc gttcccggca agtccgatac 1020 tcaagcgcaa attcccgcag cgtgtggcag aactgcatga tgcgcacttc acgggccgcc 1080 tgcggggtgt agcccaggta gagcaggaag gcatggaacc taggcaggtc agagtaggga 1140 gggacagtaa gtcctgctta ttgtctgagg gagggtggtg gccgtcctgc ctctcttggg 1200 tccatgcccc tacctattgc agacacggcg gtgcactatc cttagcatgg caacacggcg 1260 ggcacactgg tccaggaagt gggtgaggcg ggcacgcagg gctggggcca gctcatgctt 1320 ggccaagete egcaggetet ceteggetge eeggeteegg egeteeaget geceeaggtt 1380 ctcagtcagc tgttcaaagt ccacctgaga aagcaagggg gtgcacatac tgtccccca 1440 caccetgtag acaagacatg geeegagget gettetggge cagagtggee agettgggee 1500 ctaaggacac agacatccaa atctcataga ctagtgcaag agacacaagt ccatctgatg 1560 tgaatgggga gcagaaggtt tactggggga agtggcagtt aaacagaccc aaagactgag 1620 taggtgtggc caggccaata gaggaaagag catttctggc agagggcata gctcacaccc 1680 aggtggctgg agcaagccct ggcacagcag cccaaatggg gagaaggggg aggagccagg 1740 eccaggaage agegeteete atgeettgte eggeettggt tgattetgge aggtgetaae 1800 cttggcacag cgggtcaggg cagggatttc tgaatagagg tcagaggact caggccgggt 1860 ctggagcact agggagcaga gatggtgtag cagtgactgt cgacgcaccg tgtccttcac 1920 ctctgacacc ttctccaggt agctcagctc aaagccgctg ctctgaaagg accctttctg 1980 agcctgggcc tggttggctc cagaaccctg actcccccta gtccccatgt actctcactc 2040 2100 acctgggagc cattgaggaa gttgcccacc gctaggaggg tagccaggat gcagcggaag gtggcattct gtaccagctg ttccataccc actttcaggt caaacagtgg ctcagcaatt 2160 2220 tectggtatg ggagaceagg gaeteteaga etacatggte atgatgetta eetgteeeta 2280 ctgactgtcc cactccaaga cccaggtacc cgctccatgc tgtcatagtc cagcttgaag gcccagagtt gtagacgagc agcgaggccg ccaatggagg caagagtcat caggaagttc 2340 tcggctgggc ccaggggtat gtcagggttg gccagctggg cttcctcaat cttctgccgc 2400 tcttcctccg tgggcatcat ggtcagtagc ttctgaggat gtagccagag cctgacatgg 2460 ccccctcaat gcaggcctga ggcctgaggc attggtcttg acccctcagt catctagggg 2520 aggccccagt gtctggggac tgccctgcag aaatgccaag cccatgccca ccaccagagg 2580 gacaggaaat gcccacctac caaaggagaa ggccagacct cccccaaca cccatagctg 2640 2700 gccttaatga catgcacagg tggcagtgtg gttaggccga tgttgatggc gttgctgcgc 2760 ttggggtcca gcactgtggt cattgtccgg cggccctctc cagctttctg catggttggg 2820 ggaagggcag tgtaagactg aggaaggggg cctgacgcgg tggctcacgc ctgtaatccc 2880 agcactttgg gaggccaagg cgggtggacc acgaggtcag gagatcgaga ccatcctggc 2940 taacatggtg aaaccccatc tctactaaaa atacaaaaaa aattagctgg gcgtggtggc 3000 gggcacctgt agtcccagct actcgggagg ctgaggcagg agaatggcgt gaacccggga 3060 ggcggagctt gcagtgagct gagatcacac cattgcacta catcctgggt gactgagcaa 3120 gactctgtct caaaaaaaaa aaaaaaaaa aaaagactga ggaagggact agctgggaca 3180 gcaacctcag agggcactcc aaggccctcc tctagattgc caaatgatcc cacaactgac 3240 aaactggcaa cctggaatgt gtaagtcatg gggatgagct tagattcttt tgagacaggg 3300 cctggctcta ccatctaggc tggagtgcag tggtgccatc atcgcccact gcagcttatc 3360 ttctgggatt ttcctgcctc agcctcccaa gtagctggga ttacaggcgt gtaccaccat 3420 acccaactat ttttttttt aacatttttt tttccgcctc ccaggttcaa gcaattcttt 3480 tgcctcagcc tcccaagtag ctggtattgc aggcatgagc caccacgccc agctcatttt 3540 catattttta gtagagacgg ggtttcacca tgttggccag gctggtctca aactcctggc 3600 ctcaagtaat ctgcctgcct tggcctccca aagtgctggg attacagggg tgagccacca 3660 tgcccggcta attttttt taacatttat ttattttat ttatttagtt atttttgaga 3720 cgaagtcttg ctcttgtccc ccaggctgga gtgcaatggt gcgatctcga ctcactgcaa 3780 cctctacctc ccgggttcaa gtgattctcc tgcctcagcc tcccgagtag ctgggattac 3840 aggtgcccgc caccacgctt ggctaatttt gtgtttttag tagagacggg gttttgctaa 3900 tttgaccagg ctggtctcga actcctgacc tcaaatgatc cacctgcctc ggcctcccaa 3960 ggtcctggga ttacaggcat gagccactac acccagacca acttttagta gagataatgt 4020 ctcactatgt tgcacaggct ggtctcaaac tcttggatta caggtgtgag ccaccatgcc 4080 cggccacatt tagattctag ttggggcact gctgatccct tgttaggaga ccttggacaa 4140 tttcctactc ctttctttgc cttggtttcc ccatgtggga agtgagtgac tagctccaac 4200 aggtcagatc cttaagctct gattccctcc tgcctccctt ggggctacct tgcagatgag 4260 tggatttacc ttggagggca gcacctcttt ggcacgagac tcaaagaggt gttccagtcg 4320 ggccgtgtcc actgagacag ggtccagtga agcccagagg gtggcgcagg gcccaaagcg 4380 gcttgcagag actccatggc ccccagccag cttcagctca cgccagaaaa gttttactgt 4440 cttcctctta gtggggaggg ctgagctgtc aggcactgaa tggggaagag gggcagccag 4500 aggtagaggt ggaggtggtg ggaaggggcc tttgatgggt gggggaggtg gaagtggggg 4560

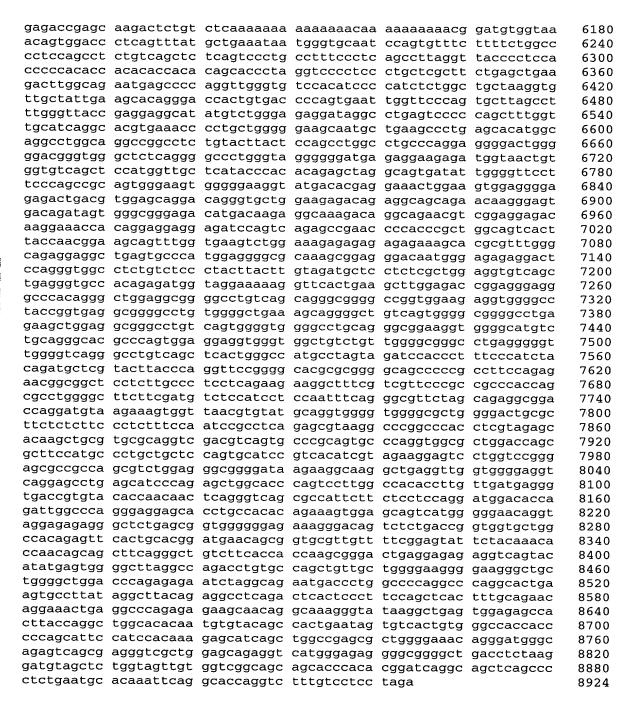
aggggggggt actcccgaga gcaggggcag tgggggtgag ggagctggga tgtctttccc 4620 agcctccaca gactctacat tcagcatgtc ctggtcttca tcctccccta gatctgaaaa 4680 gtccaggtcc ccaatagaga gcctgggtgc acgggtaggg agctcccaga tgggctcagc 4740 cttggggctt gctggtatca gtggctcctt gggctctggt gcaaggcttc gctgggcccg 4800 gagcaggaca cagggggcag ggctctgggg tgttctggct gcaggggctg tctctgggga 4860 gtcccagagt tgccgggcat ctaaagaaag ggaaggagct gtcagtgcca tgcccctgt 4920 ggggcaacaa agcaacaggc aggctctgcc tgctcaccca cctactcacc tgggtgtcca 4980 eccgcetcat tgggcatggc cccggcaagt gtctctgccc ggccctgggc cagcgcaacc 5040 tgcttctctg tttctgctgc cgccacattc tccaggaacc gggctctgag ggaaggtgct 5100 tgtcactgac agcgtctgac acaccccagc ccaggtgtac atgccttgct gagcccctgg 5160 acaccaccc caattgcagg cacgcacaga cacacaggga acagtccatg cgctgagcag 5220 accagaacca caccccccc aaggccagcc cctcttcagt cctccacatc tggggaggat 5280 tactaccaac ccagcattcc caggtgaaaa cacagggaga ggatctactt aacatctaac 5340 5400 cagggtctca ctctgtcagt cacccaggct ggagtacagt ggtgtgatca tagctcactg 5460 cagcctcact ctcctgggct tgaccctcag cctcccaagt agctgggact acagacatgt 5520 gccaccacgt ccagctgatt ttttaatttt tttgaggaga cagggtctca ctgtgttgtt 5580 caggctggcc ttgaattcct ggcctcaagc agtcctccca cctcagcctc ctgaagtqct 5640 gagattacag gtgtgaatga tgcacccagc caaattttaa aaaatttctt tgtagagatg 5700 aggtettaet gtgttgeeca ggetggtgte ttgagtetag acaaggaete ttaqaqeaqq 5760 ggaaggggat agctgtccca atgggcatat caggctgtcc ctcccttqgc atgtctqqta 5820 gcttctggga gcctatgccc aggaaagggc ctggtaaaca ggccaggtgc ggtggctcac 5880 gcttgtaatc ccagcacttt gggaggcaga ggtgggtgga ttacttgaag tcaggagttc 5940 gagaccagcc tggccaacat ggtgaaaccc tgtctctact aaaaatacaa aaattaccca 6000 ggtatcctgg tgcaggccta taatcccagc tacttgggag gctgaggcag gagaattgct 6060 tgaacctggg aggcagaggt tgcagtgtgc tgagatcaca ccactgcact ccagccttgg 6120 agaccgagca agactctgtc tcaaaaaaaa aaaaaacaaa aaaaaaacgg atgtggtaaa 6180 cagtggaccc tcagtttatg ctgaaataat gggtgcaatc cagtgtttct tttctggccc 6240 ctccagcctc tgtcagctct cagtccctgc ctttccctca gccttaggtt acccctccac 6300 ccccacacca cacaccacac agcaccctag gtcccctccc tgctcgcttc tgagctgaag 6360 acttggcaga atgagcccca ggttgggtgt ccacatcccc atctctggct gctaaggtgt 6420 tgctattgaa gcacagggac cactgtgacc ccagtgaatt ggttcccagt gcttagcctt 6480 tgggttaccg aggaggcata tgtctgggag aggataggcc tgagtccccc agctttggtt 6540 gcatcaggca cgtgaaaccc ctgctggggg aagcaatgct gaagccctga gcacatggca 6600 ggcctggcag gccggcctct gtacttactc cagcctggcc tgcccaggag gggactgggg 6660 gacgggtggg ctctcagggg ccctgggtag gggggatgag aggaagagat ggtaactgtg 6720 gtgtcagctc catggttgct catacccaca cagagctagg cagtgatatt ggggttcctt 6780 cccagccgca gtgggaagtg ggggaaggta tgacacgagg aaactggaag tggaggggag 6840 agactgacgt ggagcaggac agggtgctgg aagagacaga ggcagcagaa caagggagtg 6900 acagatagtg ggcgggagac atgacaagag gcaaagacag gcagaacgtc ggaggagaca 6960 aaggaaacca caggaggagg agatccagtc agagccgaac cccacccgct ggcagtcact 7020 taccaaacgg aagcagtttg gtgaagtctg gaaagagaga gagagaaagc acgcgtttgg 7080 gcagaggagg ctgagtgccc atggaggggc gcaaagcgga gggacaatgg gagagaggac 7140 tccagggtgg cctctgtctc cctacttact tgtagatgct cctctcgctg gaggtgtcag 7200 ctgagggtgc cacagagatg gtaggaaaaa ggttcactga agcttggaga ccggagggag 7260 ggcccacagg gctggaggcg gggcctgtca gcagggcggg gccggtggaa gaggtggggc 7320 ctaccggtga ggcggggcct gtggggctga aagcaggggc tgtcagtggg gcggggcctg 7380 agaagctgga ggcggggcct gtcagtgggg tggggcctgc ggggcgggag gtggggcatg 7440 tcggtagggc aggcccagtg gaggaggtgg gggctgtctg tggggcgggg cctgaggggg 7500 ttggggtcag ggcctgtcag ctcactgggc catgcctagt agatccaccc tttcccatct 7560 acagatgete gtaettaece aggtteeggg geaegeeggg ggeageeece geetteeaga 7620 gaacggcggc tcctcttgcc ctcctcagaa gaaggctttc gtcgttcccg ccgcccacca 7680 gcgcctgggg cttcttcgat gtctccatcc tccaatttca gggcgttcta gcagaggcgg 7740 accaggatgt aagaaagtgg ttaacgtgta tgcaggtggg gtggggcgct ggggactgcg 7800 cttctctctt ccctctttcc aatccgcctc agagcgtaag gcccggccca cctcgtagag 7860 cacaagctgc gtgcgcaggt cgacgtcagt gcccgcagtg cccaggtggc gctggaccag 7920 cgcttccatg ccctgctgct ccagtgcatc cgtcacatcg tagaaggagt cctggtccgg 7980 gagcgccgcc agcgtctgga gggcggggat aagaaggcaa ggctgaggtt ggtggggagg 8040 tcaggagcct gagcatccca gagctggcac ccagtccttg gccacacctt gttgatgagg 8100 gtgaccgtgt acaccaacaa ctcagggtca gcgccattct tctcctccag gatggacacc 8160 agattggccc agggaggagc acctgccaca cagaaagtgg agcagtcatg ggggaacagg 8220



<212> DNA <213> Homo sapiens

<400> 2078 60 gttggattag ctaagaaaat tttattttgc tccgtgcgtt caaggagctc acacacatgc acatgcatat gcatgcacac acacacatac acacacactc acatgcatac acacacggct 120 aatactgctc aaggcatggc tcctgggcac agagttctgg ggccagaatt ctgctctggg 180 ccctcctcac tctgtcatct cctgcactgc agtccagggt ccagatagat ttccgggata 240 cagcaccttc acacctccag gccaggaccc ttgcttagtc ccagtgcctg caccaggtca 300 tctccgagcc cactcttcaa cgtccttctc actgcaggga cagagcaggg ttggaggggg 360 ttgatggggt tcaggtgggc agtgggattg tggggggtta cttacaagac ttgcggttgc 420 cgcgggaacg cttgcgttcc ctagcagcta aggcacgagg actgctcttg gtcactgact 480 gcaccagaag gtccatgatc tcatctgatg tatcactggg taaactggag cctgggggtt 540 cttctgggga tgcagtggag ggcccactg tgggcatgat tggggagctg ctctggacca 600 tgcctgagga aggccagata gcaaagtcag gccaaggtgg cactggagcc cattcccac 660 agetgetatg ggeeteacet etgetgegge gattgtgtgt ggtgteetea ggeetgetgg 720 780 tcagcagact cttcatacta gcatgactgt cagcatctcc ccggcctggc ccgctgctca 840 ctgctactgg gacagagggg ttgctggggg cttccccagc cacacctgag aacttctctg 900 tctggagaaa gaagaagggt gagctgggag gagcgaagga aaccaaggag gtggcagtca agactaagac ctggaagggc acccacctcg gtgatcatgc gtccccgggt cttgttgcgc 960 tcacggtatg tggcctgctt ctgctgctgc tgtagcactc gttcccggca agtccgatac 1020 tcaagcgcaa attcccgcag cgtgtggcag aactgcatga tgcgcacttc acgggccgcc 1080 tgcggggtgt agcccaggta gagcaggaag gcatggaacc taggcaggtc agagtaggga 1140 1200 gggacagtaa gtcctgctta ttgtctgagg gagggtggtg gccgtcctgc ctctcttggg tccatgcccc tacctattgc agacacggcg gtgcactatc cttagcatgg caacacggcg 1260 ggcacactgg tccaggaagt gggtgaggcg ggcacgcagg gctggggcca gctcatgctt 1320 ggccaagctc cgcaggctct cctcggctgc ccggctccgg cgctccagct gccccaggtt 1380 ctcagtcagc tgttcaaagt ccacctgaga aagcaagggg gtgcacatac tgtccccca 1440 caccetgtag acaagacatg geeegagget gettetggge cagagtggee agettgggee 1500 1560 ctaaggacac agacatccaa atctcataga ctagtgcaag agacacaagt ccatctgatg tgaatgggga gcagaaggtt tactggggga agtggcagtt aaacagaccc aaagactgag 1620 taggtgtggc caggccaata gaggaaagag catttctggc agagggcata gctcacaccc 1680 1740 aggtggctgg agcaagccct ggcacagcag cccaaatggg gagaaggggg aggagccagg cccaggaagc agcgctcctc atgccttgtc cggccttggt tgattctggc aggtgctaac 1800 cttggcacag cgggtcaggg cagggatttc tgaatagagg tcagaggact caggccgggt 1860 1920 ctggagcact agggagcaga gatggtgtag cagtgactgt cgacgcaccg tgtccttcac ctctgacacc ttctccaggt agctcagctc aaagccgctg ctctgaaagg accctttctg 1980 agectgggcc tggttggctc cagaaccctg actcccccta gtccccatgt actctcactc 2040 acctgggagc cattgaggaa gttgcccacc gctaggaggg tagccaggat gcagcggaag 2100 gtggcattct gtaccagctg ttccataccc actttcaggt caaacagtgg ctcagcaatt 2160 tcctggtatg ggagaccagg gactctcaga ctacatggtc atgatgctta cctgtcccta 2220 ctgactgtcc cactccaaga cccaggtacc cgctccatgc tgtcatagtc cagcttgaag 2280 gcccagagtt gtagacgagc agcgaggccg ccaatggagg caagagtcat caggaagttc 2340 teggetggge ceaggggtat gteagggttg geeagetggg etteeteaat ettetgeege 2400 tcttcctccg tgggcatcat ggtcagtagc ttctgaggat gtagccagag cctgacatgg 2460

ccccctcaat gcaggcctga ggcctgaggc attggtcttg acccctcagt catctagggg 2520 aggccccagt gtctggggac tgccctgcag aaatgccaag cccatgccca ccaccagagg 2580 gacaggaaat gcccacctac caaaggagaa ggccagacct cccccaaca cccatagctg 2640 2700 gccttaatga catgcacagg tggcagtgtg gttaggccga tgttgatggc gttgctgcgc 2760 ttggggtcca gcactgtggt cattgtccgg cggccctctc cagctttctg catggttggg 2820 ggaagggcag tgtaagactg aggaaggggg cctgacgcgg tggctcacgc ctgtaatccc 2880 agcactttgg gaggccaagg cgggtggacc acgaggtcag gagatcgaga ccatcctggc 2940 taacatggtg aaaccccatc tctactaaaa atacaaaaaa aattagctgg gcgtggtggc 3000 gggcacctgt agtcccagct actcgggagg ctgaggcagg agaatggcgt gaacccggga 3060 ggcggagctt gcagtgagct gagatcacac cattgcacta catcctgggt gactgagcaa 3120 gactctgtct caaaaaaaaa aaaaaaaaa aaaagactga ggaagggact agctgggaca 3180 gcaacctcag agggcactcc aaggccctcc tctagattgc caaatgatcc cacaactgac 3240 aaactggcaa cctggaatgt gtaagtcatg gggatgagct tagattcttt tgagacaggg 3300 cctggctcta ccatctaggc tggagtgcag tggtgccatc atcgcccact gcagcttatc 3360 ttctgggatt ttcctgcctc agcctcccaa gtagctggga ttacaggcgt gtaccaccat 3420 acccaactat ttttttttt aacatttttt tttccgcctc ccaggttcaa gcaattcttt 3480 tgcctcagcc tcccaagtag ctggtattgc aggcatgagc caccacgccc agctcatttt 3540 catattttta gtagagacgg ggtttcacca tgttggccag gctggtctca aactcctggc 3600 ctcaagtaat ctgcctgcct tggcctccca aagtgctggg attacagggg tgagccacca 3660 tgcccggcta atttttttt taacatttat ttattttat ttatttagtt atttttgaga 3720 egaagtettg etettgteee eeaggetgga gtgeaatggt gegatetega eteaetgeaa 3780 ectetacete eegggtteaa gtgattetee tgeeteagee teeegagtag etgggattae 3840 aggtgcccgc caccacgctt ggctaatttt gtgtttttag tagagacggg gttttgctaa 3900 tttgaccagg ctggtctcga actcctgacc tcaaatgatc cacctgcctc ggcctcccaa 3960 ggtcctggga ttacaggcat gagccactac acccagacca acttttagta gagataatgt 4020 ctcactatgt tgcacaggct ggtctcaaac tcttggatta caggtgtgag ccaccatgcc 4080 cggccacatt tagattctag ttggggcact gctgatccct tgttaggaga ccttggacaa 4140 tttcctactc ctttctttgc cttggtttcc ccatgtggga agtgagtgac tagctccaac 4200 aggtcagatc cttaagctct gattccctcc tgcctccctt ggggctacct tgcagatgag 4260 tggatttacc ttggagggca gcacctcttt ggcacgagac tcaaagaggt gttccagtcg 4320 ggccgtgtcc actgagacag ggtccagtga agcccagagg gtggcgcagg gcccaaagcg 4380 gcttgcagag actccatggc ccccagccag cttcagctca cgccagaaaa gttttactgt 4440 cttcctctta gtggggaggg ctgagctgtc aggcactgaa tggggaagag gggcagccag 4500 aggtagaggt ggaggtggtg ggaaggggcc tttgatgggt gggggaggtg gaagtggggg 4560 aggggggtgg tactcccgag agcaggggca gtgggggtga gggagctggg atgtctttcc 4620 cagcetecae agactetaea tteageatgt cetggtette atecteceet agatetgaaa 4680 agtccaggtc cccaatagag agcctgggtg cacgggtagg gagctcccag atgggctcag 4740 ccttggggct tgctggtatc agtggctcct tgggctctgg tgcaaggctt cgctgggccc 4800 ggagcaggac acagggggca gggctctggg gtgttctggc tgcaggggct gtctctgggg 4860 agtcccagag ttgccgggca tctaaagaaa gggaaggagc tgtcagtgcc atgcccctg 4920 tggggcaaca aagcaacagg caggctctgc ctgctcaccc acctactcac ctgggtgtcc 4980 accegeetea ttgggeatgg ecceggeaag tgtetetgee eggeeetggg ccagegeaac 5040 ctgcttctct gtttctgctg ccgccacatt ctccaggaac cgggctctga gggaaggtgc 5100 ttgtcactga cagcgtctga cacaccccag cccaggtgta catgccttgc tgagccctg 5160 gacaccaccc ccaattgcag gcacgcacag acacacaggg aacagtccat gcgctgagca 5220 gaccagaacc acacccccc caaggccagc ccctcttcag tcctccacat ctggggagga 5280 ttactaccaa cccagcattc ccaggtgaaa acacagggag aggatctact taacatctaa 5340 cttgcaacct cgttcatgtt cactgtcctg gtttttttt ggttggtttt ttttttagag 5400 acagggtete actetgteag teacecagge tggagtacag tggtgtgate atageteact 5460 gcagcctcac tctcctgggc ttgaccctca gcctcccaag tagctgggac tacagacatg 5520 tgccaccacg tccagctgat tttttaattt ttttgaggag acagggtctc actgtgttgt 5580 tcaggctggc cttgaattcc tggcctcaag cagtcctccc acctcagcct cctgaagtgc 5640 tgagattaca ggtgtgaatg atgcacccag ccaaatttta aaaaatttct ttgtagagat 5700 gaggtettae tgtgttgeec aggetggtgt ettgagteta gacaaggaet ettagageag 5760 gggaagggga tagctgtccc aatgggcata tcaggctgtc cctcccttgg catgtctggt 5820 agcttctggg agcctatgcc caggaaaggg cctggtaaac aggccaggtg cggtggctca 5880 cgcttgtaat cccagcactt tgggaggcag aggtgggtgg attacttgaa gtcaggagtt 5940 cgagaccage etggecaaca tggtgaaace etgtetetae taaaaataca aaaattacce 6000 aggtatcctg gtgcaggcct ataatcccag ctacttggga ggctgaggca ggagaattgc 6060 ttgaacctgg gaggcagagg ttgcagtgtg ctgagatcac accactgcac tccagccttg 6120

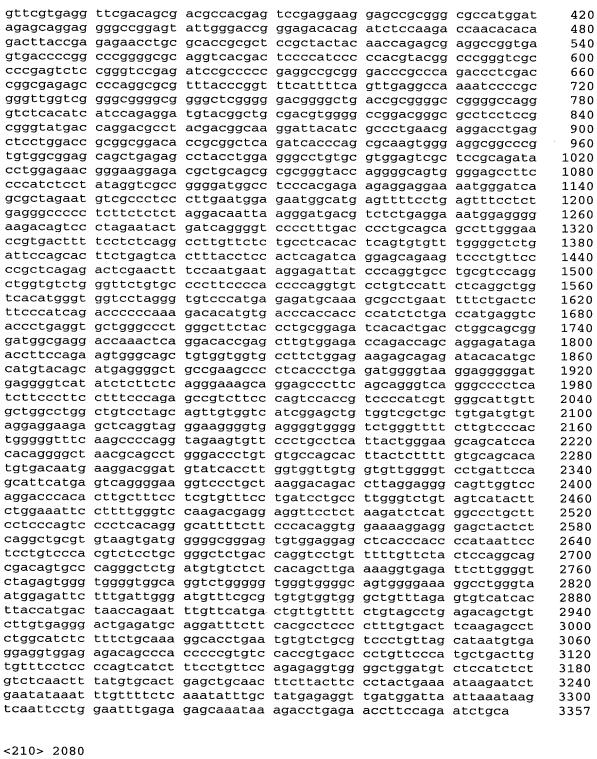


```
<210> 2079
<211> 3357
<212> DNA
```

<213> Homo sapiens

<400> 2079

ccggggtccc agttctaaag tccccacgca cccacccgga ctcagaatct cctcagacgc 60 cgagatgcgg gtcacggcg cccgaaccct cctcctgctg ctctgggggg cagtggccct 120 gaccgagacc tgggccggtg agtgcggggt cgggagggaa atggcctctg tggggaggag 180 agaggggacc gcaggcgggg gcgcaggacc cggggaggcg cgccgggagg agggtcgggc 240 gggtctcagc ccctcctcgc ccccaggctc ccactccatg aggtatttct acaccgccat 300 gtcccggccc ggccgcgggg agccccgctt catcaccgtg ggctacgtgg acgacacgct 360



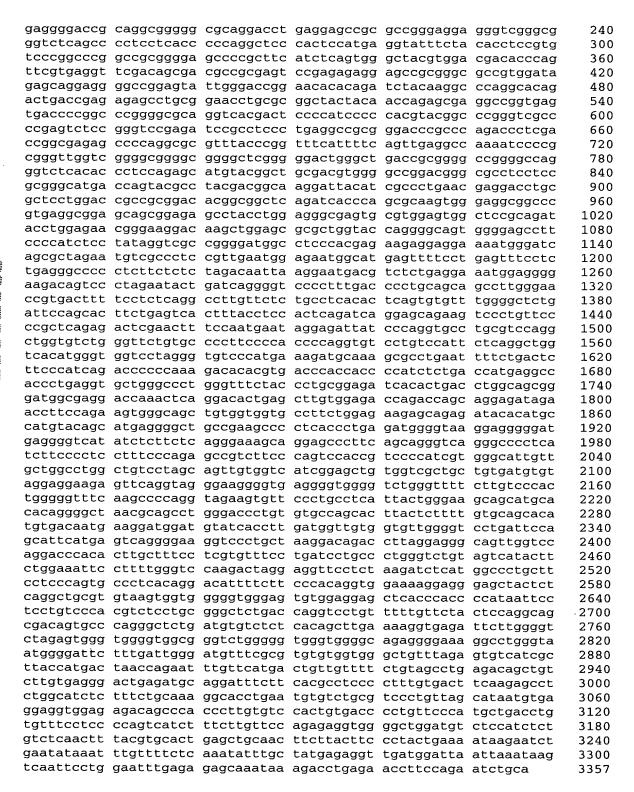
```
<211> 3357
```

<212> DNA

<213> Homo sapiens

<400> 2080

ccgcggtccc agttctaaag tccccacgca cccacccgga ctcagagtct cctcagacgc 60 cgagatgctg gtcatggcgc cccgaaccgt cctcctgctg ctctcggcgg ccctggccct 120 gaccgagacc tgggccggtg agtgcgggtc gggagggaaa tggcctctgc cgggaggagc 180



<210> 2081 <211> 1098

<212> DNA

<213> Homo sapiens

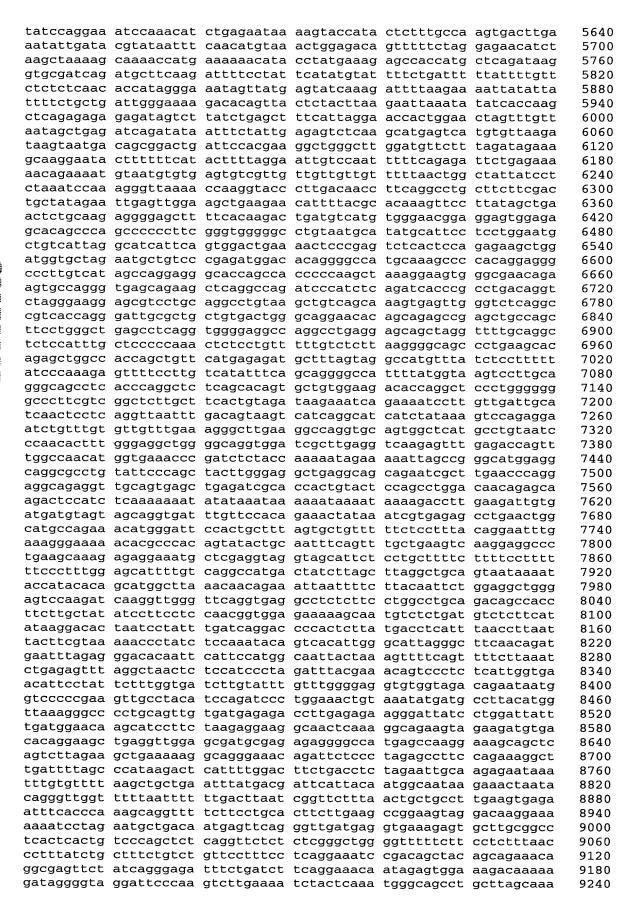
<400> 2081

ctgatcctgc	gccatgatcc	tggatggctg	cgccccactt	atgagcccat	tggattgggt	60
				tgtattgtgg		120
ggcatcgagc	ccctcagtgg	gagatatttt	gccaactgcc	atgtggaaga	ggtgcctcca	180
gctgcccgaa	acgaccgggc	agcccatcgg	ctatgggagg	ccagcaagag	gctggcaggg	240
				agtctgagga		300
				tttctcaacc		360
				ttcaggctaa		420
				atggcacttc		480
				cgggtttgtg		540
ccgtggttac	tttctggggc	cccaagctgt	gccctggaca	tctctttcc	tggttgaagg	600
aataatgggt	gattatttct	tcctgagagt	gacagtaacc	ccagatggag	agataggggt	660
atgctagaca	ctgtgcttct	cggaaatttg	gatgtagtat	tttcaggccc	cacccttatt	720
gattctgatc	agctctggag	cagaggcagg	gagtttgcaa	tgtgatgcac	tgccaacatt	780
				gtagttaaat		840
				ctagggtctc		900
				gggccgactg		960
				ggtgccccat		1020
		cagggctggg	gtcatctgta	tctgaagccc	ctcggaataa	1080
agcgcgttga	ccgccgaa					1098
-010- 0000						
<210> 2082						
<211> 255						
<212> DNA	•					
<213> Homo	sapiens					
-400- 2002						
<400> 2082						
gggtcgcgca	gccctggagg	gcaggtgcct	gtatggggag	gggccctgaa	acagaggtcg	60
tttctcggca	cagtcagacc	cgttaattcc	aagcaggctg	gggcttgttg	gggattaccg	120
				ttgggaaacc		180
		aaatgctgca	agttccagaa	tttctatcta	ggtggggcat	240
ggggactgcg	gtact					255
<210> 2083						
<211> 984						
<211> 984 <212> DNA						
<213> Homo	ganiona					
\213> 1101110	saprens					
<400> 2083						
	cccatttcca	ctcctcctct	taaaaaaaa	gagactggtt	202100000	<b>C</b> 0
agaaagttta	tttttgaaca	cccagatata	agatagatag	gcgagaccat	agatyagayt	60 120
				aggagaccct		
caccctgage	taagaggt	tettagettt	tactttatt	tggattaacc	caaacatggc	180
taggattcca	tttgatccct	taactggatt	aggaggtata	actcctggtt	gagialitig	240
				caaggagttt		300
agggggggg	taatgagggt	tecteateaa	accasatast	gagggcaggg	gcaggaggga	360
carcuturac	tagagagata	gatgggggg	accygatygt	gagggcaggg	geatetggee	420
ccctcaccat	accacctcc	cccctatast	ggccattigg	aggtcaccat tccccggcac	angartatet	480
acaactcac	tattactasa	contagasts	gayeryeagg	catacasat	tatassatt	540
cattatoaat	tatctctctc	trarretrare	accort	catcaggatt cagagtccca	gatastata	600
cagatettet	gaatcaaaca	tateetee	acttaccaca	catgtctttg	ggccatctct	660
tgacaatcaa	antraaraar	ttctcaccta	cacassatta	aattassaas	atastassas	720
aaacatcatt	agttgagaag	ttttcccac	cygyaaytty	ggttgaaggc acaaactcaa	acyacyggga	780
cttctcactc	agetyacaye	aagaagatta	astatagass	acaaactcaa	anggeraac	840
ccaddtagty	aatctttatt	taaaaaaaa	ttagagaga	aaaataaaaa	aaycagcact	900
	aaaggagaaa		LLCCCCCCaC	ccagtcctgc	adacaaacaa	960
ucuuacaaaa	uuuyyayaad	uaaa				984
<210> 2084						

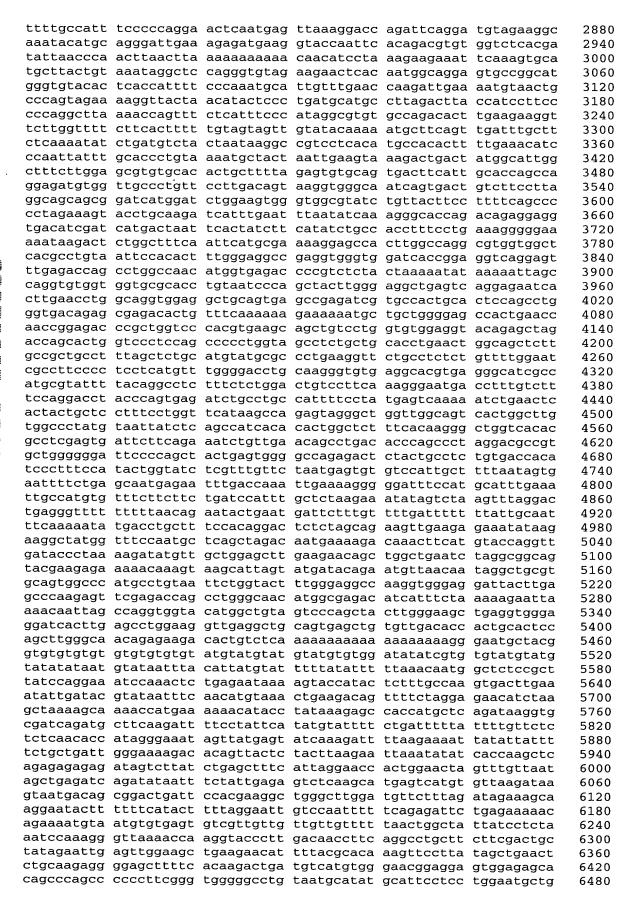
<210> 2084 <211> 984

	<212> DNA						
	<213> Homo	sapiens					
	<400> 2084						
	cctctctgcc	cccatttcca	ctcctgctct	tgggacacag	gagactggtt	agatgagagt	60
		tttttgaaca					120
	tgggagccag	gccgcagggt	ttagcttgga	tctgttgagt	aggagaccct	taaacatggc	180
	caccctgagc	taagagctgg	tcttggattt	tgctttcttt	tggattaacc	gagtattttg	240
		tttgatccct					300
		caggtgtcgt					360
		taatgagcct					420
		tcgggccata					480
	ccctgaccat	agcacctgca	cccctatact	gagetgeagg	tccccggcac	cagcgtctgt	540
	gcagctcagg	tgttgctgag	ccataacctc	cacaactctc	catcaggatt	tctcaagett	600
	cattatgaat	tatctctgtg	tgagctcaca	acqqtqactq	cagagtccca	ggtcatctct	660
	cagatettet	gaatcaaaca	tatggtctgc	agttgccgcg	catqtctttq	gccgattttc	720
	tgacaatcaa	agtgaagaag	ttctgagcta	cgggaagttg	gattgaaggc	atgatgggga	780
	aaacatgatt	agttgacagc	ttttcccaga	gagtttttag	acaaactcaa	ccttggtaac	840
		ggcttatgat					900
		aatctttgtt					960
	acaaacaaaa	aaaggagaaa	aaaa		Jungster	aaaoaaaoaa	984
		33 3					501
,							
	<210> 2085						
	<211> 9545						
	<212> DNA						
	<213> Homo	sapiens					
		_					
	<400> 2085						
	aggtagaaga	gagaccagaa	aaagatttta	ctgagaaggt	aaggaatcgt	tcataaacct	60
		aaaagttgtg					120
		tccccagcga					180
	ccttcccqqa	ggtaggccac	caggagtect	atccaatata	cattagatec	tatagaggag	240
	ggaggcgttt	ataatgggcc	ccaccatgga	gtttagggtt	aatccagcta	atcgcagagc	300
	atccaggagg	tgcctggaaa	tgatcccctc	cttacagttt	actataagcc	catgaagagt	360
		gaaatggaat					420
		tgaaatcgca					480
	ctgagactgg	gtaatttaca	aagaaaagag	ctttaattga	ctcacagttc	cacataacta	540
		aggaaactta					600
	gcgacaggag	agagaacatg	tgaaggagga	actgtcaaac	acaaagccat	cagateteet	660
	gggagcccac	tcactatcac	gagaacagca	tgggggaaac	tgcccccgtg	atccagtctc	720
		ggccgtccct					780
		gacacagagc					840
		tgccgggcct					900
		gcggagacac					960
	aaggtgagat	gctctcttct	tactgacaac	ttgagagaac	cttttgtaaa	aatcagtctt	1020
	tagattaaaa	aaaaaaagt	taattcataa	agttctggat	ctttcttctt	ggtcctctct	1080
	ccctcacctc	ccctaaaata	cggtgttctc	ctaacatcaa	gacccagctc	agatagtgtc	1140
	tcctgcagga	atctgatcct	acccactgac	ccccagcag	ggcggaccgt	gtgccggccc	1200
		tcagcacccg					1260
		gtctctgtat					1320
	cagacggctt	tacctacttt	cacacaaccc	ctccccacta	agtatgttcc	ccttcggcct	1380
	agaacttgcc	ctttcctttc	tctttgtaat	gtgcctttag	tagccctcat	ctttgtattt	1440
	taatgatttt	ttttatccca	ctgtagtgta	ggtattattc	tctgctctat	cctcagcacc	1500
	caggacagtg	ccaggcattt	ggtagtattc	tgtgtgtgaa	agagaaacac	ggtgctattt	1560
	gttaaagtaa	ctagggacag	tgcatctgaa	aacctgaaga	ctggaagggc	aggtgaggtg	1620
	actagacctg	tgtcctccag	ggagcagaac	caagacagaa	gcagctggaa	ggagccagaa	1680
	ctgactcaga	ttctgaattt	tctagtgctt	taaactaggt	ttaaaaggga	agcaacttcc	1740
	actggggatg	tctgagcagc	tggatggccg	tttgccaggg	aggacggaga	gggatttaag	1800
	catccaccag	agtttggcca	gggttacctt	gaagatgctt	ccaacaccta	tgttttataa	1860
	gtttacaaaa	ccagaagagc	catttcccat	gtgccacccc	tgggccacct	gcagctcctt	1920

1980 tttttttttt ggagacaaga gttttgcttt tgtcacccat gctggagttc aatggcacga 2040 tctcggctca ctgcaacctc cacctcccag gttcaagtga ttctccagcc tcagcctcct 2100 gagtagetgg gattacagge gecegecace atgeeegget aaettttgta tttttagtgg 2160 agacggggtt tcgccatgtt ggccaggctg gtcttgaact cctgacctca ggtgatccac 2220 ccacteggee teccaaagtg etgggattee aggegtgage egetgegeet ggeetgttgt 2280 ttccgtttct acagcagagc agcagagttg gcggcagtcc tgatgtttct ctgcccttag 2340 2400 gttgcgcgtg ccgttcattt gttcaggtac ttactgagag gctggctggt gccagatgct gtccccggca ccaggaattt ggcaaagtag agacttggag ctccataaat gcagggaaaa 2460 agtgctactg atttttgcct ctagcatctt actgtacatt gcacagagta ggaactccta 2520 gtgcttgaat gaattactaa ataggagttg aaataacctg taccgttttc cgaggctcta 2580 ttttgtctgt tttttaaact gtgtaaaatc atatgagata cactaaaatt gtataaaatc 2640 atgtaaaaat atcatatggg atacacctga actttaatct ttaaatattg aagtttattt 2700 tcccttaacg cttaataaaa taaaaaagaa aattgggtgc tcagactacc caaatagaaa 2760 ctaccctgaa gtataaaaga tttagggaat cacctgtttt cccttgacat catctgcctt 2820 ttttgccatt tcccccagga actcaatgag ttaaaggacc agattcagga tgtagaaggc 2880 aaatacatgc agggattgaa agagatgaag gtaccaattc acagacgtgt ggtctcacga 2940 tattaaccca acttaactta aaaaaaaaaa caacatccta aagaagaaat tcaaagtgca 3000 tgcttactgt aaataggctc cagggtgtag aagaactcac aatggcagga gtgccggcat 3060 gggtgtacac tcaccatttt cccaaatgca ttgtttgaac caagattgaa aatgtaactg 3120 cccagtagaa aaggttacta acatactccc tgatgcatgc cttagactta ccatccttcc 3180 cccaggctta aaaccagttt ctcatttccc ataggcgtgt gccagacact tgaagaaggt 3240 tcttggtttt cttcactttt tgtagtagtt gtatacaaaa atgcttcagt tgatttgctt 3300 ctcaaaatat ctgatgtcta ctaataaggc cgtcctcaca tgccacactt ttgaaacatc 3360 ccaattattt gcaccctgta aaatgctact aattgaagta aagactgact atggcattgg 3420 ctttcttgga gcgtgtgcac actgctttta gagtgtgcag tgacttcatt gcaccagcca 3480 ggagatgtgg ttgccctgtt ccttgacagt aaggtgggca atcagtgact gtcttcctta 3540 ggcagcagcg gatcatggat ctggaagtgg gtggcgtatc tqttacttcc ttttcaqccc 3600 cctagaaagt acctgcaaga tcatttgaat ttaatatcaa agggcaccag acagaggagg 3660 tgacatcgat catgactaat tcactatctt catatctgcc acctttcctg aaagggggaa 3720 aaataagact ctggctttca attcatgcga aaaggagcca cttggccagg cgtggtggct 3780 cacgcctgta attccacact ttgggaggcc gaggtgggtg gatcaccgga ggtcaggagt 3840 ttgagaccag cctggccaac atggtgagac cccgtctcta ctaaaaatat aaaaattagc 3900 caggtgtggt ggtgcgcacc tgtaatccca gctacttggg aggctgagtc aggagaatca 3960 cttgaacccg gcaggtggag gctgcagtga gccgagatcg tgccactgca ctccaqcctq 4020 ggtgacagag cgagacactg tttcaaaaaa gaaaaaatgc tgctggggag ccactgaacc 4080 aaccggagac ccgctggtcc cacgtgaagc agctgtcctg gtgtggaggt acagagctag 4140 accagcactg gtccctccag cccctggta gcctctgctg cacctgaact ggcagctctt 4200 gccgctgcct ttagctctgc atgtatgcgc cctgaaggtt ctgcctctct gttttggaat 4260 cgccttcccc tcctcatgtt tggggacctg caagggtgtg aggcacgtga gggcatcgcc 4320 atgcgtattt tacaggcctc tttctctgga ctgtccttca aagggaatga cctttgtctt 4380 tccaggacct acccagtgag atctgcctgc cattttccta tgagtcaaaa atctgaactc 4440 actactgctc ctttcctggt tcataagcca gagtagggct ggttggcagt cactggcttg 4500 tggccctatg taattatctc agccatcaca cactggctct ttcacaaggg ctggtcacac 4560 gcctcgagtg attcttcaga aatctgttga acagcctgac acccagccct aggacgccgt 4620 gctgggggga ttccccagct actgagtggg gccagagact ctactgcctc tgtgaccaca 4680 tccctttcca tactggtatc tcgtttgttc taatgagtgt gtccattgct tttaatagtg 4740 aattttctga gcaatgagaa tttgaccaaa ttgaaaaggg ggatttccat gcatttgaaa 4800 ttgccatgtg tttcttcttc tgatccattt gctctaagaa atatagtcta agtttaggac 4860 tgagggtttt tttttaacag aatactgaat gattctttgt tttgattttt ttattgcaat 4920 ttcaaaaata tgacctgctt tccacaggac tctctagcag aagttgaaga gaaatataag 4980 aaggctatgg tttccaatgc tcagctagac aatgaaaaga caaacttcat gtaccaggtt 5040 gataccctaa aagatatgtt gctggagctt gaagaacagc tggctgaatc taggcggcag 5100 tacgaagaga aaaacaaagt aagcattagt atgatacaga atgttaacaa taggctgcgt 5160 gcagtggccc atgcctgtaa ttctggtact ttgggaggcc aaggtgggag gattacttga 5220 gcccaagagt tcgagaccag cctgggcaac atggcgagac atcatttcta aaaagaatta 5280 aaacaattag ccaggtggta catggctgta gtcccagcta cttgggaagc tgaggtggga 5340 ggatcacttg agcctggaag gttgaggctg cagtgagctg tgttgacacc actgcactcc 5400 5460 gtgtgtgtgt gtgtgtgtgt atgtatgtat gtatgtgtgg atatatcgtg tgtatgtatg 5520 tatatataat gtataattta cattatgtat ttttatattt ttaaacaatg gctctccgct 5580

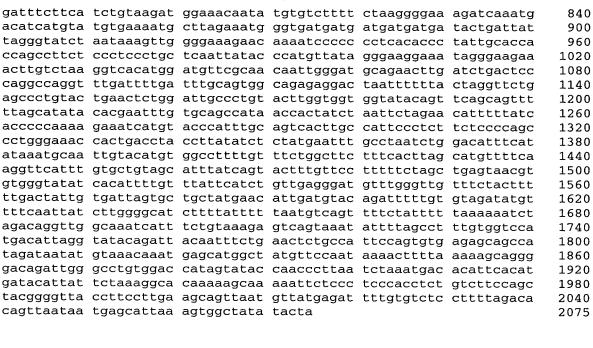






tcattaggca	tcattcagtg	gactgaaaac	tcccgagtct	cactccagag	aagctggatg	6540
	gctgtcccga					6600
	caggagggca					6660
	gcagaagctc					6720
	gtcctgcagg					6780
	tgcgctgctg					6840
	cctcaggtgg					6900
						6960
getagegee	ccccaaactc	gagagatgat	ttactacaa	gggcagccct	yaaycacaya	
getggetatt	agctgttcat	gagagatget	ctagtaggee	arguitatet	cetttttate	7020
	ttccttgtca					7080
	caggctctca					7140
	tcttgcttca					7200
	ttaatttgac					7260
	gtttgaaagg					7320
	aggctggggc					7380
	gaaacccgat					7440
	tcccagctac					7500
cagaggttgc	agtgagctga	gatcgcacca	ctgtactcca	gcctggacaa	cagagcaaga	7560
	aaaaaatata					7620
	aggtgatttg					7680
	tgggattcca					7740
gggaaaaaca	cgcccacagt	atactgcaat	ttcagtttgc	tgaagtcaag	gaggccctga	7800
agcaaagag						7809
<210> 2087						
<211> 1015						
<212> DNA						
<213> Homo	sapiens					
<400> 2087						
cttctttggt	ttaatgcagg	atcaccagac	tctgtggccc	acgacctgtt	tttgtgtagc	60
ccataagaca	tacctttcta	agtactatag	ctgaaaaaca	tcaaaagagt	agtaatattt	120
	gaaaattata					180
gccatgctca	ttcgtttgta	tatggtctgt	ggctgctttc	tccctacaac	ggtagaattg	240
aacagttgca					3333	240
	tcagagacct	tatggcctgc	taggccagaa			300
aaagcttgct		tatggcctgc taatgcttta		atgttaagcc	ctttacagag	
	ggctcctgtt	taatgcttta	actgccctac	atgttaagcc tgaaaggcag	ctttacagag gaggttgaaa	300
aaatgatggt	ggctcctgtt agtcaaaagg	taatgcttta aatgcatgaa	actgccctac atcctgttgt	atgttaagcc tgaaaggcag cttctgttag	ctttacagag gaggttgaaa ctgattgcaa	300 360
aaatgatggt gtagtacaca	ggctcctgtt agtcaaaagg ggatatattt	taatgcttta aatgcatgaa gagacatctc	actgccctac atcctgttgt ttttcctatc	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa	ctttacagag gaggttgaaa ctgattgcaa ggataattca	300 360 420
aaatgatggt gtagtacaca ggcggatctc	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg	taatgcttta aatgcatgaa gagacatctc cacaggcatt	actgccctac atcctgttgt ttttcctatc tgcctcattc	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat	300 360 420 480 540
aaatgatggt gtagtacaca ggcggatctc ttagttatgg	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg	300 360 420 480 540 600
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt	300 360 420 480 540 600 660
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg	300 360 420 480 540 600 660 720
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca	300 360 420 480 540 600 660 720 780
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct	300 360 420 480 540 600 660 720 780 840
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag	300 360 420 480 540 600 660 720 780 840 900
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca ttaatctact	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca ttaatctact	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggtggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA <213> Homo	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	300 360 420 480 540 600 660 720 780 840 900 960
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggtggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA <213> Homo  <400> 2088	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatatttta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga sapiens	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat aaattatgtc	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa tgtgaactct	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac tttttttt	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat tttt	300 360 420 480 540 600 720 780 840 900 960 1015
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggtggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA <213> Homo  <400> 2088 cttctttggt	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga sapiens ttaatgcagg	taatgcttta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat aaattatgtc atcaccagac	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa tgtgaactct	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac tttttttt	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat tttt	300 360 420 480 540 600 720 780 840 900 960 1015
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA <213> Homo  <400> 2088 cttctttggt ccataagaca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga sapiens ttaatgcagg tacctttcta	taatgctta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat aaattatgtc  atcaccagac agtactatag	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa tgtgaactct  tctgtggccc ctgaaaaaca	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac tttttttt  acgacctgtt tcaaaagagt	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat tttt	300 360 420 480 540 600 660 720 780 840 900 960 1015
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaaggt tagacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA <213> Homo  <400> 2088 cttctttggt ccataagaca tgtgacatgt	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga sapiens  ttaatgcagg taccttcta gaaaattata	taatgctta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat aaattatgtc  atcaccagac agtactatag tgaaattcaa	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa tgtgaactct  tctgtggccc ctgaaaaaca atttctgtct	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac tttttttt  acgacctgtt tcaaaagagt gtaaacctca	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat tttt	300 360 420 480 540 600 660 720 780 840 900 960 1015
aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca ttaatctact  <210> 2088 <211> 1015 <212> DNA <213> Homo  <400> 2088 cttctttggt ccataagaca tgtgacatgt gccatgctca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga sapiens ttaatgcagg tacctttcta	taatgctta aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat aaattatgtc  atcaccagac agtactatag tgaaattcaa tatggtctgt	actgccctac atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa tgtgaactct  tctgtggccc ctgaaaaaca atttctgtct ggctgcttct	atgttaagcc tgaaaggcag cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac tttttttt  acgacctgtt tcaaaagagt gtaaacctca tccctacaac	ctttacagag gaggttgaaa ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat tttt	300 360 420 480 540 600 660 720 780 840 900 960 1015

aaatgatggt gtagtacaca ggcggatctc ttagttatgg attatagaac agctgaagga tttggggatt tggtggaagg tgagcagctt aatgacctca	ggctcctgtt agtcaaaagg ggatatattt agtgcacagg gaatattta atgcttgcct cgtcagaact acactagatc agtgacctca atctaaatgc tgagaatgga ataactgtga	aatgcatgaa gagacatctc cacaggcatt atatctctca ggagaacagg gtcctttaac atctctaggc gtgtgaatcc tgtgtgcctt ctgagatcat	atcctgttgt ttttcctatc tgcctcattc aaaatagggt aaatgcggga ctccctgcag accgttcagc tggttctgtc tgttagctca attcttaaaa	cttctgttag tcccaccaaa ttgttttgtc atctggtgtg tccactcctg gtctctaaat tcagtagaga cctttctgcc tctgaaaatg ctcttggcac	ctgattgcaa ggataattca tgttttgaat agtcagaatg gtgtgctgtt ggtaggattg cattgctgca caggagacct tggctgtaag taataggtat	360 420 480 540 600 660 720 780 840 900 960 1015
<210> 2089 <211> 130 <212> DNA <213> Homo <400> 2089	sapiens					
	tttcgctctt gcctcccagg					60 120 130
<210> 2090 <211> 527 <212> DNA <213> Homo	sapiens					
atgagatcat gctttggagc ctgtgtatga attaaatgaa gtttcatggc ttccctgttc gtcccccttg	aagccagctt atcaatgcat catataatat tcttggcctt attacccatg ctcctactct tcctaactta ccccagccct ggccctacct	aggaagctag agctgtggtt ccatttcctc tgaaatgctt ctggacacat cttatccttc gtgcttccac	acatgtatta caaagcctgg ctgggaatga agcatggtac acctatcctc agagcccagt agggcctgtg	gattgtggtt ctttgccatt taataatact ctaagtagtg tgtctgctag tcaagggacg cacgcctctc	aagggcatac tacttactag tgctgtgaag ccactctaaa aactcctcac tcttcatgaa	60 120 180 240 300 360 420 480 527
<210> 2091 <211> 2075 <212> DNA <213> Homo	sapiens					
cttagcactg ctttaagatg tctggtttag ctaaggatta tattagaaag gcatagccc acctgtgtgt actcctaccc accagcagaa tgtttgtggt gcaaaaacag	atcagagaag tgatgcacaa taggcccaga caaggacagc aggagcacc gagagcagac ttcactaccc ctctctctgt acagactgct ccccaggttc gaggctgctg tgtggtagtg caacacccac	aggettaact tetettagta gaggataett tetteeteet geetagagtt tagtaacaag gatgtatgtg actgtgeeaa tgeeteteet gaeactgetg taggeagaac	gggtttggca gtgaatccct tcctctctcc taaggccttt ctgacctctt tatgacctgt ggcttggtgt tatagaggtt tcctcccttt ttttgggctt aagatctaga	gcaagggtct gatgttccct ctcctcctta gggagagatg gggcctcccc tgcctgttga ccacatcaat cataagaaag gcccagataa tctagagaga atcagaagac	catggatact ctcttggggc ctcctcta ggtctcctgg taaacaaaa ggtcaggtgt gtgcgtgaat ataaaagaga aggtgtacag atgcaaacat ctggagtcga	60 120 180 240 300 360 420 480 540 600 660 720 780



<210> 2092 <211> 2075 <212> DNA

<213> Homo sapiens

<400> 2092 agcaaactga atcagagaag gtgagtggca aagcccatgt agctggtggc attactagaa 60 cttagcactg tgatgcacaa aggcttaact gggtttggca gcaagggtct catggatact 120 ctttaagatg taggcccaga tctcttagta gtgaatccct gatgttccct ctcttggggc 180 tctggtttag caaggacagc gaggatactt tcctctctcc ctcctctta ctcctctcta 240 ctaaggatta aggagccacc tcttcctcct taaggccttt gggagagatg ggtctcctgg 300 tattagaaag gagagcagac gcctagagtt ctgacctctt gggcctcccc taaacaaaaa 360 gcatagcccc ttcactaccc tagtaacaag tatgacctgt tgcctgttga ggtcaggtgt 420 acctgtgtgt ctctctctgt gatgtatgtg ggcttggtgt ccacatcaat gtgcgtgaat 480 actectacee acagaetget actgtgeeaa tatagaggtt cataagaaag ataaaagaga 540 accagcagaa ccccaggttc tgcctctcct tcctcccttt gcccagataa aggtgtacag 600 tgtttgtggt gaggctgctg gacactgctg ttttgggctt tctagagaga atgcaaacat 660 gcaaaaacag tgtggtagtg taggcagaac aagatctaga atcagaagac ctggagtcga 720 atctcagctc caacacccac tggatgaacg tggacaagct gcttgatctc tcagatcctc 780 gatttcttca tctgtaagat ggaaacaata tgtgtctttt ctaaggggaa agatcaaatg 840 acatcatgta tgtgaaaatg cttagaaatg ggtgatgatg atgatgatga tactgattat 900 tagggtatct aataaagttg gggaaagaac aaaatccccc cctcacaccc tattgcacca 960 ccagcettet ecetecetge teaattatae ecatgetata gggaaggaaa tagggaagaa 1020 acttgtctaa ggtcacatgg atgttcgcaa caattgggat gcagaacttg atctgactcc 1080 caggccaggt ttgattttga tttgcagtgg cagagaggac taatttttta ctaggttctg 1140 agccctgtac tgaactctgg attgccctgt acttggtggt ggtatacagt tcagcagttt 1200 ttagcatata cacgaatttg tgcagccata accactatct aattctagaa catttttatc 1260 acceccaaaa gaaatcatgt acceatttge agteaettge catteeetet teteeceage 1320 cctgggaaac cactgaccta ccttatatct ctatgaattt gcctaatctg gacatttcat 1380 ataaatgcaa ttgtacatgt ggccttttgt ttctggcttc tttcacttag catgttttca 1440 aggttcattt gtgctgtagc atttatcagt actttgttcc tttttctagc tgagtaacgt 1500 gtgggtatat cacattttgt ttattcatct gttgagggat gtttgggttg tttctacttt 1560 ttgactattg tgattagtgc tgctatgaac attgatgtac agatttttgt gtagatatgt 1620 tttcaattat cttggggcat cttttatttt taatgtcagt tttctatttt taaaaaatct 1680 agacaggttg gcaaatcatt tctgtaaaga gtcagtaaat attttagcct ttgtggtcca 1740 tgacattagg tatacagatt acaatttctg aactctgcca ttccagtgtg agagcagcca 1800 tagataatat gtaaacaaat gagcatggct atgttccaat aaaactttta aaaagcaggg 1860

gatacattat tacggggtta	tctaaaggca ccttccttga	catagtatac caaaaagcaa agcagttaat agtggctata	aaattctccc gttatgagat	tcccacctct	gtcttccagc	1920 1980 2040 2075
<210> 2093 <211> 478 <212> DNA <213> Homo	sapiens					
ccagcatggt ctagtgtcct tttcagtctt agcacctctc cgcttgacat gtgagagcat	agggaatctt ccagactaga tgctcaaaca ccccatcgct atttgttttt ttttctctta	gcaaggtggt ctttgttgct tttaaggtgt tccttttatc gttatcctta tgtttacttt actgcttatc agattgctca	gtggcactgt ggttccccgc agagaggctt cccagtttaa ctggcctgtg ttcaagtaaa	cgatctctgt taaattattc tctgacatcc ttccacgtag acaactagaa cagaacagtg	tccctgaact tctcacctcc tgtgcaagat catctgccaa tataagctct cctgtcctgt	60 120 180 240 300 360 420 478
<210> 2094 <211> 1011 <212> DNA <213> Homo	sapiens					
gaataatctt cttggtgatc gatgatttgt tcttgtctgt tttatgcagt agggaggtct cttcttcagg ataatctcct tcatagcaac acgtaaaatt aaaccattta agctaatctg actggtgttc ctatttaat aaacacaaac	ttgaactcct ccttttgggt gtgtcagtca cttcatatcc tgtaggggct ggaaactctc gaaacctcag ttacataaag acctaggtca gatcaccaca atctcccaat tgtacaactg acttttatcc aaattttatg attcataaca	ctaaaagaga gagatttgcc caaaaacaag gagttccgcc atgtatctgt ggctaggcaa agacaagacc ctttcaacgg ttaactgatt gtttttgaat gtccatgtct aaagacaata aaaatatgct ttgataatcc ttagatgaca aaacaatgaa tttataacta	cagtcatttt ctctgactga agagaaacac catctaccta atccaaaatc tgacattgca agtggatcag gtagatgtaa aactgggtat tgttaacttg acaaagtaaa cttttcctgg agtaacttta aggggataag tactcataat	ggggccatgt agagatgcaa aaccagtagg gatttaatgc cacagggcag gtccactggt acccaaccat attacattta tatagcatag gcacctgtac acttctgcct gagagaattc ataatattat agagggaaga aattatagta	ctgatgaaag gatttctca atatattcta aaggaattgg gccgtgtgga ggaatttctc attatccagg caagatacct ccaggtcaac acatttcctt atcatgacac acagtccttg gtaaatgtag aaaaatacat ctaacttctg	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1011
<210> 2095 <211> 478 <212> DNA <213> Homo	sapiens					
ccagcatggt ctagtgtcct tttcagtctt agcacctctc cgcttgacat gtgagagcat	agggaatctt ccagactaga tgctcaaaca ccccatcgct atttgtttt ttttctctta	gcaaggtggt ctttgttgct tttaaggtgt tccttttatc gttatcctta tgtttacttt actgcttatc agattgctca	gtggcactgt ggttccccgc agagaggctt cccagtttaa ctggcctgtg ttcaagtaaa	cgatctctgt taaattattc tctgacatcc ttccacgtag acaactagaa cagaacagtg	tccctgaact tctcacctcc tgtgcaagat catctgccaa tataagctct cctgtcctgt	60 120 180 240 300 360 420 478

```
<210> 2096
<211> 1011
<212> DNA
<213> Homo sapiens
<400> 2096
agtccttgag gaacagaacc ctaaaagaga gaacacctgc ctaatctgac tcctccatca
                                                                       60
gaataatett ttgaaeteet gagatttgee eagteatttt ggggeeatgt etgatgaaag
                                                                      120
cttggtgatc ccttttgggt caaaaacaag ctctgactga agagatgcaa gattttctca
                                                                      180
gatgatttgt gtgtcagtca gagttccgcc agagaaacac aaccagtagg atatattcta
                                                                      240
tettgtetgt etteatatee atgtatetgt catetaceta gatttaatge aaggaattgg
                                                                      300
tttatgcagt tgtaggggct ggctaggcaa atccaaaatc cacagggcag gccgtgtgga
                                                                      360
agggaggtet ggaaactete agacaagace tgacattgea gtecaetggt ggaatttete
                                                                      420
cttcttcagg gaaacctcag ctttcaacgg agtggatcag acccaaccat attatccagg
                                                                      480
ataatctcct ttacataaag ttaactgatt gtagatgtaa attacattta caagatacct
                                                                      540
tcatagcaac acctaggtca gtttttgaat aactgggtat tatagcatag ccaggtcaac
                                                                      600
acgtaaaatt gatcaccaca gtccatgtct tgttaacttg gcacctgtac acatttcctt
                                                                      660
aaaccattta atctcccaat aaagacaata acaaagtaaa acttctgcct atcatgacac
                                                                      720
agctaatctg tgtacaactg aaaatatgct cttttcctgg gagagaattc acaqtccttq
                                                                      780
actggtgttc acttttatcc ttgataatcc agtaacttta ataatattat gtaaatgtag
                                                                      840
ctattttaat aaattttatg ttagatgaca aggggataag agagggaaga aaaaatacat
                                                                      900
aaacacaaac attcataaca aaacaatgaa tactcataat aattatagta ctaacttctg
                                                                      960
caactgttca catgatgtgt tttataacta ccggtgttac aaaattactg g
                                                                     1011
<210> 2097
<211> 981
<212> DNA
<213> Homo sapiens
<400> 2097
ataacttcga tgtactggac ttgcatttcc acttccgcca cgcgagggag aacctgcact
                                                                       60
gggacggggt gcactggaat ggacgtgtgc accgctgcct ctcccagctg ctgctggccc
                                                                      120
acgtggccga cgcctggggt gtggagctgc cccaccgcca ccccgtgggc gagtggatca
                                                                      180
agaagaaaaa acctggcccg agagtcgaag ggccgccca ggccaacaga aatcacccgg
                                                                      240
cettacetet gtececacee ttacettece ceacataceg ceceetgett gggtteceae
                                                                      300
eccagegett geogetgete eegeteetgt ecceacagee tecteetee attetecate
                                                                      360
accagggaat gccccggttc ccacagggtc ccccagatgc ctgtttttcc tcagaccata
                                                                      420
ctttccagtc ggatcaattc tattgccatt cagatgtccc ctcatcagcc catgcaggtt
                                                                      480
tettegtega agacaatttt atggttggte etcagetgee tatgeeette tteeceacae
                                                                      540
cccgttatca gcggcctgcc ccagtggtac ataggggttt tggcaggtat cgtcccgtg
                                                                      600
gcccctatac gccctgggga cagcggcctc gaccttcaaa gagaagggcc ccagccaatc
                                                                      660
ctgagccaag gcctcaatag acggacctag gccttatttc ctctttatga acatggattg
                                                                      720
gacagatctg acacttcctt tccattgctt ggcctgaaca gactgacctt gttaacttaa
                                                                      780
gcctggagtc catgcctcgt cttccttttg ttcattgctg ttaccaagaa agccaaggaa
                                                                      840
gagcagcctg actcattctt cttggctgca gcctcttccc cacttcctgg gagtgaccca
                                                                      900
gcgttattcc tgcctcctca ctcctattct ctttgccttt gtgtaaaaat aaaatggaaa
                                                                      960
taaacaagtt gcacagaagt a
                                                                      981
<210> 2098
<211> 981
<212> DNA
<213> Homo sapiens
<400> 2098
ataacttcga tgtactggac ttgcatttcc acttccgcca cgcgagggag aacctgcact
                                                                       60
gggacggggt gcactggaat ggacgtgtgc accgctgcct ctcccagctg ctgctggccc
                                                                      120
acgtggccga cgcctggggt gtggagctgc cccaccgcca ccccgtgggc gagtggatca
                                                                      180
```

ccttacctct cccagcgctt accagggaat ctttccagtc tcttcgtcga cccgttatca gccctatac ctgagccaag gacagatctg gcctggagtc gagcagcctg	acctggcccg gtcccaccc gccgctgctc gccccggttc ggatcaattc agacaatttt gcggcctgcc gccctgggga gcctcaatag acacttcctt catgcctcgt actcattctt tgcctcctca gcacagaagt	ttaccttccc ccgctcctgt ccacagggtc tattgccatt atggttggtc ccagtggtac cagcggcctc acggacctag tccattgctt cttccttttg cttggctgca ctcctattct	ccacataccg ccccacagcc ccccagatgc cagatgtccc ctcagctgcc ataggggttt gaccttcaaa gccttatttc ggcctgaaca ttcattgctg gcctctccc	ccccctgctt tcctcctccc ctgtttttcc ctcatcagcc tatgcccttc tggcaggtat gagaagggcc ctctttatga gactgacctt ttaccaagaa cacttcctgg	gggttcccac attctccatc tcagaccata catgcaggtt ttccccacac cgtccccgtg ccagccaatc acatggattg gttaacttaa agccaaggaa gagtgacca	240 300 360 420 480 540 600 660 720 780 840 900 960 981
<210> 2099 <211> 984 <212> DNA <213> Homo						
gcattctgct ggtggaacct aactgccact gggcttggtg agcgccatcc aggtgagtcc gcaaaggaag gtgcggcagc gtatacaagg agagcaaggg cacatgcaca gtacgttttt ctgcagtcgg tgcaggtcg	gctaaccaaa agcactctca gagcctccaa agacaaggct gagcctgtta ccttcccat ctcccagccc gagctaggct tgcttcacaa acctggtgct gggagctgaa acggccttaa acttcctcac gcgagcacgc gtccgaactc aggtgctgcc	tccctgggga cagcagcctc tttggctccc tgcgggcact ggtctcccta ttctctcctt gtgcgcctg taagttcgtg tctgctgcag cttcgaacaa ctaccgtgag ccgcgtgtac ccccgacctg ctggagaagc cgagtcttgc	gggtggatca aggtcattca ttcctgcct ccaggtccac ccccaacct ctgtcctagc ggcgtcatga gtcatcctgg aaggaccgcc gatgagctgg gtccgcgagt tccgattacc gtcatcatga tacctggaga	tacttggctc taggtcaagc ctcgccaatc tccctcaggg gcactgggcg catccgcaga tccttctgcg gggactctgt tgctcactcc tggacggagg tccgctccga tccagaccat attcctgcct acctggagaaa	ctcccacca cccaggcctg tcccaggtcc cagaggccac ctccgccag gccatcctgt ggcctccgaa gcatagggca cgggcagctt ccagcggggc ccaccatctg cttgaaagag ctgggacatc cctgttccag	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 984
<210> 2100 <211> 118 <212> DNA <213> Homo <400> 2100 cctcagcctc atttttagta	sapiens ccgagtagct gagacgaggt	gggattacag ttctccgtgt	gcatgcacca tggtcaggct	ccacgcctgg ggtcttgaac	ctaattttgt tcctgacc	60 118
<210> 2101 <211> 984 <212> DNA <213> Homo	sapiens					
gcattctgct ggtggaacct	gctaaccaaa agcactctca gagcctccaa agacaaggct	tccctgggga cagcagcctc	gggtggatca aggtcattca	tacttggctc taggtcaagc	ctccccacca cccaggcctg	60 120 180 240

agcgccatcc aggtgagtcc gcaaaggaag gtgcggcagc gtatacaagg agagcaaggg cacatgcaca gtacgttttt ctgcagtcgg tccaggtatg	ccttcccat ctcccagcc gagctaggct tgcttcacaa acctggtgct ggagctgaa acggccttaa acttcctcac gcgagcacgc gtccgaactc	tgcgggcact ggtctcccta ttctctcctt gtgcgccctg taagttcgtg tctgctgcag cttcgaacaa ctaccgtgag ccgcgtgtac ccccgacctg ctggagaagc cgagtcttgc	ccccaacct ctgtcctagc ggcgtcatga gtcatcctgg aaggaccgcc gatgagctgg gtccgcgagt tccgattacc gtcatcatga tacctggaga	gcactgggcg catccgcaga tccttctgcg gggactctgt tgctcactcc tggacggagg tccgctccga tccagaccat attcctgcct acctggagaa	ctccgccag gccatcctgt ggcctccgaa gcatagggca cgggcagctt ccagcggggc ccaccatctg cttgaaagag ctgggacatc	300 360 420 480 540 600 660 720 780 840 900 960 984
atctctgtgt	ttttaatcca ctcaaatctt	ctaaaaaaac agcacaacgc atgaagagat	ctggcactta	ataaatactg	aatagcattt	60 120 173
<210> 2103 <211> 5033 <212> DNA <213> Homo	sapiens					
aaaactctgt cggagaggtg gacgccaagg cctgcgtgca tacccccagc tttttggctc agggtgtcct ggacccagga tggagtgaag ccatccagga atgggcacc ccacctctc ccaaaaggac acatgtgtat gccactgg tcagttctgg gtgcacctag ctcttctgag agcagtgact ggtggtgaa aatgggcta agggacttgc tccaggtgaa	cggtaccaac caggactcag acgcgctctc gcactcggcc cccggcatgc tagcagcaag catagtgcag caggtaagac tcaggagtct tatcctggag agtccagtaa caggactaaa agatgccagc gggtgcctca tgcattgtct gaggacccag gagtatctgc ggaggtgacc ggaccaggag gagtgccagg ggaggtgaa aggaaaagcg gtggggtcaa	ggctacagac cccagagcgt acttcaccag ccgcgtccag ggcgtgcagc cgcaggcttc cttcctgctc gtagagtggg tgtacaagag ggtgcagcaa aaggaccca tcctgaggaa gctgcactct agctcagact tcctcaggac tcctcaggac tcctcaggac tcctcaggac tcctcaggac tcctcaggac tcctcaggac tcctcaggac tagactttcc cttttctgca attcccacct cctgcgtgcc gcagaaccag aagtgggggt agtgcgtggt tgcctaacat gggtggtctt	tgagagcagc cccactcggt gcagccccag atgaccctgt agcgttccac atcttgccgg ggaaggctca cctccatgaa gcacccttt gctgggtcct cagtataggc catcccatcc	ccacctccac cccagccttg cttgctggct ggaacggcgt tgctcatcgt ggatccgtgg tgggcagatt tagtcgaatt ccaaggatag tgggaaggct ttcttgtgat ggtggtgat cctttgcact acattggatt gaacctaggt tgttgctttc gagatcactg cagacagcta tgctgttagg cagaaatgcc agtctggata gtttggcagg	gcttccttaa tacgcaaaga tgcctgccg actgcctttt tattctagtg ccactcggta gtctcctgag gaggctcagg ggagagctcc gctgcagaga ggagggctc gaccttcagg gggttgagac agaagttga tgtgcattt cctggaactg tggggcctcc agcctcacca gggagggca agagtgaa gtagatgga agtagccag taactaaaga gctcaggct	60 120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260 1320 1380 1440
gacccgggtg tcataggcgc aggaaggagg cctcttccca	cctattcctg agaaattgtg tgggcagagg ctctccagct	cagcgctggt ggtgagtgtg gcacctggga ccttctaggg	tttggttggt tggtgcagcc caatagggaa	gagagttctt catggggaga ctggggttgg ggcccttacc	ctcagtctgt ggacggggtg ttttctgctc atgcaaccac	1500 1560 1620 1680 1740

ccattttccc	accctcatcc	caccćccacc	gtgtgccttt	ccctacagct	gtgcacttca	1800
gtgcagaatg	gttcgtgggt	acagtgaaca	ccaacacatc	ctacaaagcc	ttcagcgcag	1860
cgcgcgttac	agcccgtgtc	cgtctgctcg	tgggcctgga	gggcattaat	attacactca	1920
caggtgaggg	ggctggggct	aaatgaactc	ctggagctgg	gagatccccg	gttaggtgag	1980
tgtgtcaggg	atagctggag	ggcctctcac	atcccacaag	ctcaaatagc	ttgtggtcct	2040
cgtggatttg	cgttttctcc	aaccaccacc	gaacccattt	ctcccgccga	gagcgccaca	2100
ccccacttt	cctgtctgaa	tccgcttagt	tgcgaggtct	ccgaccgcgg	gcagccccat	2160
gagcccgcct	caccccacag	ggaccccagt	gcatcagctg	aacgagacca	ttgactacaa	2220
cgagcagttc	acctggcgtc	tgaaagagaa	ttacgccgcg	gagtacgcga	acgcactgga	2280
gaaggggctg	ccggacccag	tgctctacct	ggcggagaag	ttcacaccga	gtagcccttg	2340
cggcctgtac	caccagtacc	acctggcggg	acactacgcc	tcggccacgc	tatggtaagt	2400
gctggaggga	aggctgtgtg	cacgtgtgtg	tgtgccagga	gctgggccgt	atgagcggga	2460
ggatgcaggc	ctcggaggcg	ctgagcagct	gcagccagac	ccgacgcgct	cggggtgggc	2520
atgacagcct	cgcgggttag	aagatccacg	agatctgcac	agacggaatc	cggagagact	2580
ccagccaccg	cctggacctc	aggagcccgc	ttctcccccg	gggaattccc	ctgcaccgct	2640
						2700
accccggtgg	gctgggagaa	gcccgctcac	agcgggtccc	cccactcccc	ggcagggtgg	2760
						2820
						2880
tctctagcgt	gccgctctgc	ccgctccgcc	taggctcctc	cgcgctcacc	actcagtacg	2940
						3000
taagggtgga	gacaggattc	acaccgggtg	tgcactttcc	agtttacaga	atgaattcac	3060
atctattacc	ctatttgccc	ctctcaatag	ttcgcagaaa	caggcactgt	tatgaccatt	3120
ttacagatga	aaagtggggg	gctcagaagg	gtttggtgtc	ttgccgtgtt	tcatgtaatt	3180
cagattagag	gtgtgtggcg	ggaggtaaca	caaggggtag	gctccaaaag	atggaagaag	3240
gcccgggcat	cacgcctgta	atcccagcac	tttgggaggt	cgaggcagga	aggtcgtttg	3300
aggccagagt	tcgagaccag	cctgggcaac	atagccctga	ctccacatgc	cctcctttct	3360
ttcgatcccc	accgccacag	gcgtcctgtg	cctcttcctc	ggaggggccg	tggtgagtct	3420
ccagtatgtt	cggcccagcg	ctcttcgcac	ccttctggac	caaagcgcca	aggactgcag	3480
ccaggagaga	gggggctcac	ctcttatcct	cggcgaccca	ctgcacaagc	aggccgctct	3540
cccagactta	aaatgtatca	ccactaacct	gtgaggggga	cccaatctgg	actccttccc	3600
cgccttggga	catcgcaggc	cgggaagcag	tgcccgccag	gcctgggcca	ggagagctcc	3660
aggaagggca	ctgagcgctg	ctggcgcgag	gcctcggaca	tccgcaggca	ccagggaaag	3720
tctcctgggg	cgatctgtaa	ataaaccttt	ttttcttttg	ttttttaaaa	actgtttttc	3780
ccattaattt	tcatggcttc	tccgcgccgg	ggtcgcacgt	cctcatgagc	ttcgctgggc	3840
tggagacagc	ctagtacact	ctccgcagtg	ctgtgaaacc	tgattctctg	cgtcgactcc	3900
agagtaatag	gggcgccctc	tagtgaggcc	ggagggaccc	taccagagct	agcatctttc	3960
tgaaccaccc	cagggggacg	ttaggtggca	gtgatgaggc	aggtcaccca	ctcccccgtc	4020
ctggatgcca	ctcagctagc	ccagctgagt	ggggtgggaa	ggaatagcgt	tttggagttg	4080
attccctaac	ttcccacctg	gcttcttgtg	aggtggtgtt	tgagggccaa	ggtaggtgtc	4140
						4200
aatttgggaa	ctgaagctca	aagagaatgt	ggcatagttg	gttaatgtta	gacctaggat	4260
gagaagtttg	gtttcccctc	ctttccagtg	ctgtctttca	ttgtaccaaa	aggccacaca	4320
agctggagaa	gtaaaggaag	aacaaaagga	acccaggaaa	aaggaaaaca	agaggtgccg	4380
agggatgaga	ggaaaccata	ggagaatcat	atgtaacccc	caccctgctg	gtgttatggg	4440
						4500
gttgctgtgc	agataagcta	gcccctgctt	ggccttatca	tggcaacagg	ctttatggac	4560
						4620
						4680
						4740
						4800
						4860
						4920
						4980
catcctgtgg	gccaccgcca	tagccaggcc	cagcagcaca	cacagcagtc	ctg	5033
	gtgcagaatg cgcgcgttac caggtgaggg tgtgtcaggg tgtgtcaggg cgtggatttg cgcccacttt gagcccgctt cgagcagttg cgctggagga ggtgaggga ggtgaggga ggtgaggga ggtgaggga ggtgaggga ccagcaccg gccatccag accccggtgg cgttctgctt gctggactt taagggtga atctattacc ttacagatga gccagggcat aggccagagt tccagattaga gccagggaa ttcgatccc ccagtatgt ccagaattagag gcctggagaa tctcttggga acctggggaa tctcttggga aggcagagt ttggagaag ccagaattt tggagaagga ccagaattt tggagaagga ccagaattt tggagaagga ccattaattt tggagaagga ccattaattt tggagaagaa tctcctgggg cattaattt tggagacagc aggatgaata ggagagagaa tggagagaa ggtgaagt aggagagaa ggtgaagt aggccagga tatatagag cacccaggt tgctcctta ggactgtca caccctgagg aagtccaggt tgctcctta ggactgtca ctccagcatg	gtgcagaatg gttcgtgggt cgcgcgttac agcccgtgtc caggtgaggg ggctggggct tgtgtcaggg atagctggag cgtggatttg cgttttctcc ccccacttt cctgtctgaa gagcccgcct cacccacag cgagcagttc acctggcgtc gaaggggctg ccggacccag cgctgtac caccagtacc gctggaggg aggctgtgtg ggatgcaggc ctcggaggcg atgacagcc cgcgggttag ccagcaccg cctggaggcg atgacagcc cgcgggttag ccagcaccg cctggaggcg atgacagcc cgcgggttag ccagcaccg cctggacctc gccatcccag tccctggct accccggtgg gctgggagaa cgttctgctt ctggctcctc gcctggcact gccgctctgc gcgccgctt ctggggtcacg taagggtgga gacaggattc atctattacc ctatttgccc ttacagatga gacaggattc atctattacc ctatttgccc ttacagatga gacaggattc acccggggcat cacgcctgta aggccagagt tcggagccag ccagattgt cggcccagg ccagattgt cggcccagg ccagagaga gggggcccac ccagactta aaatgtatca cgccttggga catcgcagg ccagaagga agggggccac ccagaagga catcgcagg cagaaggaa catcgcagg cagaaggaa catcgcagg tctcctgggg cgatctgtaa ccattaattt tcatggcttc tggagacagc ctagtacact agagaaggca cagagggacg ctggatgcca ctcagctagc atccctaac ttcccacctg agcaaggcat agaaagataa aatttgggaa ggaaaccata ggtgaagtta ggtttccctc agcaggagaa ggaaaccata ggtgaagtta ggaaaccata ggtgaagtta ggattccacc agcaggagaa ggaaaccata ggtgaagtta ggattccacc agcaggaagt ggaaaccata ggtgaagtta ggattccacc agcaggaagtt ggaaaccata ggtgaagta ggaaaccata ggtgaagtta ggattccacc agctggaga ccccccc agcaggaag aggaaaccata ggtgaagtta ggaaaccata ggtaccagca ctccttttc aggaccagca cagattctgc aagtccagg gccatccacg tcctctta cagtatgcct ggactctctta cagtatgcct ggactctcta cagtatgcct ggactctcta cagtatgcct ggactctcta ggaccatca ggcactgca gccatggacc ctccagcatg ggcctccacg tccacacgg ggactctacc ggactgtca ggccatggacc ccacaggac ggacaccagg	gtgcagaatg         gttcgtgggt         acagtgaaca           cggcgttac         agcccgtgtc         cgtctgctcg           caggtgaggg         ggcttgggct         aaatgaactc           cgtgttcaggg         cgtcttcac           cgcccactt         cctgtctgaa         tccgcttagt           gagcccgct         cacccacag         ggaccccagt           cgagcagttc         acctggcgtc         tgaaagaga           gaagggctg         ccggaccag         tgcttaccc           cggcttgaa         acctggcgtc         tacctggcgg           gcagaggag         caccagtacc         acctggcggg           gcagaggag         ctcggaggcg         ctgagcagct           gatgcagcc         cccggggttag         aagatccacg           gcatgaagga         ctcggaggag         ccgttgtggg           gacagccacc         ccggggttag         aagatcacg           ccagcacacg         cctggggttag         acagcgttgg           gccatccac         gctgggagaa         gcccgctcac           gcctggcact         ctggccacc         cggaccacg           gccttggcact         ctggccacc         ctgctcacc           gcgcccgctt         ctgggtcacc         ctctcaatag           gcgccaggact         ctatttgcc         ctctcaatag           ccaggg	gtgcagaatg gttcgtgggt acagtgaaca ccaacactc cgcgcgttac agcccgtgtc cgtctgctcg tggggctt acagtgaggg gcttggaggtc acagtgaggg gctggggct acagtgaggg ggctctcac atccacaag cgtggatttg cgttttctc accacacc gaacccattt ccccactt cetgtctgaa tccgcttagt tgcgaggtcg gagccgccccacc cacccacag ggacccagt gcagcaggtc cacccacacg ggacccagt gcagagggcg ccggacacca tcccacacag ggacccagt gcatcagctg cgagcagttc acctgagggc tgaaaggaga ttaccggcg cggacgaggaggaggaggaggaggaggaggaggaggagga	gegoggttac agccegtge cgtctgctcg tgggcctgga gggcattaat caggtgaggg ggctggggct aaatgaactc ctggagctgg ggcattaat caggtgaggg ggctggggct aaatgaactc ctggagctgg gggcattaat caggtgaaggg ggcttctcac atccacaag ctcaaatagc ctgggatttg cgtttctcc aaccaccacc gaacccattt ctccgccga ccccacttt cctgtctgaa tccgcttagt tgcgaggtct cccacccgg gacccccattt cctgtctgaa tccgcttagt tgcgaggtct cccacccgg gaccccattt cctgcgtc tagaagaggaa ttacgccgg gaagggggtc cagaaccag tgctcacct ggcggagagggggggggg	gdeagasty gtteggggs aagtagaac acaacaaca ctaaaagac taaagagagggggggggg

<210> 2104 <211> 134 <212> DNA

<213> Homo sapiens

	agcccaatat acctggccca tggg					60 120 134
<210> 2105 <211> 5533 <212> DNA <213> Homo	sapiens					
<400> 2105						
ctacacagaa	gacccaaggc	tgcgatgctg	gatacctcaa	tttgggagct	ggagactgga	60
	tgagttattt					120
	ttaaatctga					180
	cccaacacac					240
	ggcacaacag					300
	ggagcagagt					360 420
	aggccaggcc					480
	caagggcaag actaaacaac					540
	gctgatgaat					600
	ctggagccct					660
	aagccaccct					720
	ccgaactaca					780
	gtttgcactt					840
ctgctgcaga	gtgtggaggt	agagggatgg	ggggtacctg	gcaatctgat	ggccactgcc	900
cccacctctg	tggggactcc	tacatgtggt	cagaccctct	gggaggagag	aagaggggtt	960
gagaacctta	gaggacttgg	gtggagaggg	gctttgaggg	aggtacactt	tactttctag	1020
	tccctaaccg					1080
	ttctgtccta					1140
	tcatgtcctg					1200
	taaaaatgat					1260
	cgttcctttt					1320 1380
	gaaggacaag	•				1440
	ggagaggacc ggtgaggcat					1500
	tctctctgtc					1560
	tttcacttgc					1620
	gcacacatct					1680
	accaaggcct					1740
	gactaagact					1800
	ttgggaattc					1860
	gttctagatt					1920
	agattccatt					1980
	gagctgcggt					2040
	caggtgagca					2100
	aactttgtaa					2160 2220
	ccctggcttc					2220
	ggatgtaagt ttgctgaagg					2340
	ctagcaaggt					2400
	aattgctaga					2460
	ggaatgagga					2520
	ccaatcttgt					2580
	ccttgctggg					2640
gcacctggcc	cctgtatagt	ctaatgatac	cctcatccag	aggagacagc	tggtccaact	2700
	catccttttt					2760
	ctcagaggac					2820
gtgagcgtgg	agacccaggc	tcctctcctg	ctgggcctcg	agaggcttct	ccccttagtt	2880

gtcatcagcc	agccggctcc	catttctcct	cacctctctg	ggccagctga	ggacagtagc	2940
	tgagcagtgg					3000
	ccagcctgga					3060
	atcctcccac					3120
cccggctaat	tagagaagga	atcttagcta	tccagggctc	tcttttccc	aggggagagg	3180
	agcctctctt					3240
	ctcactgctt					3300
	cctgcctcac					3360
	acctgtccca					3420
aaccctgtct	ctttggcatc	caggaggctg	aagatgagaa	gtcagtcctg	atggcagctg	3480
tgcagagtgg	gggtgaggag	gccaacttac	tgcttcctga	actgggcagt	gccttctatg	3540
acatggccag	gtgagttcaa	ccagcaaggc	caggagggag	gtgggaggag	gtcagaggga	3600
aagggcatct	gtgtggacag	tcaccaggcc	ctgctcccaa	cccctgccct	tcttggcctc	3660
agccaagaaa	aggagataca	ggtatggtta	acaaggaaaa	tgactcactg	ctccaaatcc	3720
cagatgcctt	caggtaatcc	ctacccctat	cttatcaatg	cactcagagg	tcctgccttt	3780
	tatgttgttc				-	3840
ctctctcctg	cctctacccc	ttccccaacc	accaggtagg	tacctagggt	cctccgggga	3900
	tgaccatggc					3960
ccatctggct	acaactgaaa	tgctttccct	cttccctgac	ttccctgggt	aacccttagg	4020
	tatagaggtg					4080
	gttcaagggg					4140
	tgtgagatgg					4200
	aagatgaagg					4260
	ggaggagagc					4320
	aagagaggac					4380
	gtgggagagg					4440
	tcctgctctc					4500
	ccctctgtc				_	4560
	ccctgccacc					4620
	tgacaaggat					4680
	cttcaccttt					4740
	acactcacac					4800
	tgatattctg					4860 4920
	cttcatcctc					
	ctgaatttat					4980 5040
	gggaatagaa					5100
	acactcacac					5160
	ctctcttatt agcagcatgg					5220
	tttctgttcc					5280
	cagtttggag					5340
	tctcctcaca			_	_	5400
	gtcccaggta					5460
	aagcttcccc					5520
atgatatgta		cegacaccea	coccucigua	geeegaacaa	acacaccac	5533
Ligarargea	-34					5555

```
<210> 2106
<211> 5543
```

<212> DNA

<213> Homo sapiens

<400> 2106

<b>4007 2106</b>						
ctacacagaa	gacccaaggc	tgcgatgctg	gatacctcaa	tttgggagct	ggagactgga	60
tatgcaggat	tgagttattt	gagctgagaa	cccaagaagg	gctggcaata	gctgaaggct	120
tgagtgtgtg	ttaaatctga	gaagtggaac	cttgacctct	ctcatcacaa	tggttcacct	180
cccgagccac	cccaacacac	ataccccttt	ccttacctgc	tttccacttc	cctcaggctg	240
agctccaagt	ggcacaacag	gagaaccatc	acttaaattt	ggacctgaag	gaggcgaaga	300
gctggcaaga	ggagcagagt	gctcagggct	cagcgactga	aagacaaggt	ggcccagatg	360
aaggacaccc	taggccaggc	ccagcagcgg	gtggtgagtg	aggccccttg	gcaacaggaa	420
acgggaaatt	ccaagggcaa	gttgtagaga	agcctgcgtg	tctaaagaga	aggggagaga	480

540 catggctaaa gactaaacaa cacaaccccg agtcctaatg cagtggagtg gagggagcgt ttacctccct ggctgatgaa tgattcacta ggaactctga tctccatctc ctcctttctc 600 660 ctgaggccga gctggagccc ttgaaggagc agcttcgagg ggcccaggag cttgcagcct 720 caagccagca gaaagccacc cttcttgggg aggagttggc cagtgcagca gcagccaggg 780 accgcaccat agccgaacta caccgcagcc gcctggaagt ggctgaagtt aacggcaggc 840 tggctgagct cggtttgcac ttgaaggaag aaaaatgcca atggagcaag gagcgggcag 900 ggctgctgca gagtgtggag gtagagggat ggggggtacc tggcaatctg atggccactg 960 ccccacctc tqtqqqqact cctacatqtq qtcagaccct ctqqqaqqaq agaaqaqqqq ttgagaacct tagaggactt gggtggagag gggctttgag ggaggtacac tttactttct 1020 aggeatgace catecetaae eggggtatee caateetgat caccagagta cetteettgg 1080 1140 aacagaaaca ttttctgtcc tagaccccag gccctgccat aatgcccatt cctgatcaag cagcacctgc cgtcatgtcc tgtccttcat tcagagggta taggaaatga aggcaaaaag 1200 1260 gggaaagtgc tctaaaaatg atgctttaaa taaaggaaag gacacagtaa gggatggtgc 1320 tgttgacagt ggcgttcctt tttcttcccc ctccaccctc ccattttcct tcttggctat ctctcaggca gagaaggaca agatcctgaa gctgagtgca gagatacttc gattggagaa 1380 ggcagttcag gaggagagga cccaaaacca agtgttcaag actgagctgg cccgggagaa 1440 ggattctagc ctggtgaggc atccagccac caagggtcct gtcctatggc ctcctgaggc 1500 atccataccc cttctctctg tcttgggtat gggctcagaa gtgctaggtg tccactacca 1560 1620 tgttgggtgg catttcactt gcacacgcaa gccctcattg gtttgaaatg tgcatttttt tctgctctca gggcacacat ctgggcccag tagaggtgac ttaggagaat tatagagtgg 1680 1740 ccccttggta tgaccaaggc ctctgcaccc cagcctagag gaagtcatgc aggtccccac tcgagaggca gagactaaga cttagaaaac tgagtatctg tggcccaaga caaagtactc 1800 1860 atggaggaag tgttgggaat tcctgtgtgt gtgtgtcaga gcagggaaga agcagaggca tggggagacc tggttctaga ttgttggtcc tggtcccaga gtccaggttc ttggaggtac 1920 attctaggct ccagattcca ttgggccctc ttccctcagg tacagttgtc agaaagtaag 1980 2040 cgggagctga cagagctgcg gtcagccctg cgtgtgctcc agaaggaaaa ggagcagtta caggaggaga aacaggtgag cacccataac ccaggccccg tggatgccac aggtgaggac 2100 ttgagggcta gaaactttgt aaattcctgt catctcttgg cttagaaact gttctctcca 2160 2220 agagggcccg taccctggct tctcttatta gctgatttgg caggacagcg gatgatctct 2280 gggagaaggg agggatgtaa gtggtgaagc aggggtgctg gggggagtgt ctgcctgaag 2340 ttgccccaat ctttgctgaa ggcatctaat gctgaggagc taagagttct tcttgggtgc agettetgea ggetageaag gttggeacet teceattete tageacetge ettttteett 2400 2460 cccaattcca ggaatcgcta gagtacatga gaaagctaga ggcccgcctg gagaaggtgg cagatgagaa gtggaatgag gatgccacca cagaggatga ggaggccgct gtggggctga 2520 gtccgtgtag ccccaatctt gtaacacctc ttccccactc tacctcccgc tgttgaggaa 2580 ggctccatgt aaccttgctg ggagctgcct ttgccttcta tgtgttttgc cttttctttc 2640 2700 ccagaccctg gcccctgttt agtctaatga tacccctcat ccagaggaga cagctggtcc aacteeteae aacacateet tittettet etgeetgett cateteetae aggetgeeeg 2760 gcagctctga cagactcaga ggacgagtcc ccagaagaca tgaggctccc accctatggc 2820 ctttgtgagc gtggagaccc aggeteetet cetgetggge etegagagge tteteeeett 2880 2940 gttgtcatca gccagccggc tcccatttct cctcacctct ctgggccagc tgaggacagt agctctgact cggtgagcag tggaggagcc tgtgcagaag cagtaaggag gggcagggcc 3000 3060 aaacccaagt gtcccagcct ggagtgcagc accgatcttg gctcactgca gcctctgcct cctgggctga agcgatecte ccaceteagt etecegagag tagetgggae caeaggeagg 3120 3180 caccccggc taattagaga aggaatctta gctatccagg gctctctttt tcccagggga gaggaggcag gcccagcctc tcttcagtgc cacaccagta gatatcatcc caaaacccag 3240 accageceaa tageeteact getteteece cacagteatt etettattat teaccagece 3300 ctcaaaacgc ctctcctgcc tcactcttcc taagcccctc aggtcactgt cctagccttg 3360 3420 gctgctcttc ccatacctgt cccaatgtgc tgctcccca tcttgggaca ccaccccaaa 3480 gcccaaccct gtctctttgg catccaggag gctgaagatg agaagtcagt cctgatggca gctgtgcaga gtgggggtga ggaggccaac ttactgcttc ctgaactggg cagtgccttc 3540 tatgacatgg ccaggtgagt tcaaccagca aggccaggag ggaggtggga ggaggtcaga 3600 gggaaagggc atctgtgtgg acagtcacca ggccctgctc ccaacccctg cccttcttgg 3660 3720 cctcagccaa gaaaaggaga tacaggtatg gttaacaagg aaaatgactc actgctccaa 3780 atcccagatg ccttcaggta atccctaccc ctatcttatc aatgcactca gaggtcctgc 3840 ctttaactgg cttctatgtt gttctagcac catcttctgc agagcccaaa ttgccctgct 3900 teccetetet cetgeeteta eccettecce aaceaceagg taggtaceta gggteeteeg 3960 gggaggaagg gaggtgacca tggcccccag ggataggagc agaggagaaga ctgggatcca 4020 gcatccatct ggctacaact gaaatgcttt ccctcttccc tgacttccct gggtaaccct 4080 tagggaaggg aacctataga ggtgggggtt tcaggtatca gattgtcccc ttctgccttc 4140 cettttatte ceaggtteaa gggggeagge acagggaaga gagatttgat catetagtee

cggttttgcc	tggatgtgag	atgggctcag	ggcagggagg	gggtgatgct	gtcatccttc	4200
			tcagactcat			4260
			ctgggggatg			4320
			aactggaaaa			4380
			gctgcattag			4440
			tgcaagtcaa			4500
			tagtggcttt			4560
			catggaagga			4620
			tggaggacca			4680
			gatcttactc			4740
			tgcatacact			4800
			cctaagaact			4860
			tacctggctc			4920
			ctgaaagtgg			4980
			tccactccta			5040
			cactcccttg			5100
			agtttccgtt			5160
			tcatggcctc			5220
			attgacttct			5280
			ttttttggat			5340
			aaagaaaata			5400
			tccccatttc			5460
			ctgatatcca			5520
	atgatatgta					5543
	-					

<210> 2107 <211> 5538 <212> DNA <213> Homo sapiens

<400> 2107

<400> 2107						
ctacacagaa	gacccaaggc	tgcgatgctg	gatacctcaa	tttgggagct	ggagactgga	60
tatgcaggat	tgagttattt	gagctgagaa	cccaagaagg	gctggcaata	gctgaaggct	120
tgagtgtgtg	ttaaatctga	gaagtggaac	cttgacctct	ctcatcacaa	tggttcacct	180
cccgagccac	cccaacacac	ataccccttt	ccttacctgc	tttccacttc	cctcaggctg	240
agctccaagt	ggcacaacag	gagaaccatc	acttaaattt	ggacctgaag	gaggcgaaga	300
gctggcaaga	ggagcagagt	gctcaggctc	agcgactgaa	agacaaggtg	gcccagatga	360
aggacaccct	aggccaggcc	cagcagcggg	tggtgagtga	ggccccttgg	caacaggaaa	420
cgggaaattc	caagggcaag	ttgtagagaa	gcctgcgtgt	ctaaagagaa	ggggagagac	480
atggctaaag	actaaacaac	acaaccccga	gtcctaatgc	agtggagtgg	agggagcgtt	540
tacctccctg	gctgatgaat	gattcactag	gaactctgat	ctccatctcc	tcctttctcc	600
tgaggccgag	ctggagccct	tgaaggagca	gcttcgaggg	gcccaggagc	ttgcagcctc	660
aagccagcag	aaagccaccc	ttcttgggga	ggagttggcc	agtgcagcag	cagccaggga	720
ccgcaccata	gccgaactac	accgcagctg	cctggaagtg	gctgaagtta	acggcaggct	780
ggctgagctc	ggtttgcact	tgaaggaaga	aaaatgccaa	tggagcaagg	agcgggcagg	840
gctgctgcag	agtgtggagg	tagagggatg	gggggtacct	ggcaatctga	tggccactgc	900
ccccacctct	gtggggactc	ctacatgtgg	tcagaccctc	tgggaggaga	gaagagggt	960
tgagaacctt	agaggacttg	ggtggagagg	ggctttgagg	gaggtacact	ttactttcta	1020
ggcatgaccc	atccctaacc	ggggtatccc	aatcctgatc	accagagtac	cttccttgga	1080
acagaaacat	tttctgtcct	agaccccagg	ccctgccata	atgcccattc	ctgatcaagc	1140
agcacctgcc	gtcatgtcct	gtccttcatt	cagagggtat	aggaaatgaa	ggcaaaaagg	1200
ggaaagtgct	ctaaaaatga	tgctttaaat	aaaggaaagg	acacagtaag	ggatggtgct	1260
gttgacagtg	gcgttccttt	ttcttccccc	tccaccctcc	cattttcctt	cttggctatc	1320
tctcaggcag	agaaggacaa	gatcctgaag	ctgagtgcag	agatacttcg	attggagaag	1380
gcagttcagg	aggagaggac	ccaaaaccaa	gtgttcaaga	ctgagctggc	ccgggagaag	1440
gattctagcc	tggtgaggca	tccagccacc	aagggtcctg	tcctatggcc	tcctgaggca	1500
tccatacccc	ttctctctgt	cttgggtatg	ggctcagaag	tgctaggtgt	ccactaccat	1560
			ccctcattgg			1620
			agaggtgact			1680
cccttggtat	gaccaaggcc	tctgcacccc	agcctagagg	aagtcatgca	ggtccccact	1740

cgagaggcag agactaagac ttagaaaact gagtatctgt ggcccaagac aaagtactca 1800 1860 tggaggaagt gttgggaatt cctgtgtgtg tgtgtcagag cagggaagaa gcagaggcat 1920 ggggagacct ggttctagat tgttggtcct ggtcccagag tccaggttct tggaggtaca ttctaggctc cagattccat tgggccctct tccctcaggt acagttgtca gaaagtaagc 1980 gggagctgac agagctgcgg tcagccctgc gtgtgctcca gaaggaaaag gagcagttac 2040 aggaggagaa acaggtgagc acccataacc caggccccgt ggatgccaca ggtgaggact 2100 tgagggctag aaactttgta aattcctgtc atctcttggc ttagaaactg ttctctccaa 2160 2220 gagggcccgt accctggctt ctcttattag ctgatttggc aggacagcgg atgatctctg ggagaaggga gggatgtaag tggtgaagca ggggtgctgg ggggagtgtc tgcctgaagt 2280 2340 tgccccaatc tttgctgaag gcatctaatg ctgaggagct aagagttctt cttgggtgca 2400 gcttctgcag gctagcaagg ttggcacctt cccattctct agcacctgcc tttttccttc 2460 ccaattccag gaattgctag agtacatgag aaagctagag gcccgcctgg agaaggtggc 2520 agatgagaag tggaatgagg atgccaccac agaggatgag gaggccgctg tggggctgag tccgtgtagc cccaatcttg taacacctct tccccactct acctcccgct gttgaggaag 2580 gctccatgta accttgctgg gagctgcctt tgccttctat gtgttttgcc ttttctttcc 2640 cagaccctgg cccctgttta gtctaatgat acccctcatc cagaggagac agctggtcca 2700 actecteaca acacatectt ttttettete tgeetgette atetectaca ggetgeeegg 2760 cagetetgae agacteagag gaegagteee cagaagaeat gaggeteeea eeetatggee 2820 tttgtgagcg tggagaccca ggctcctctc ctgctgggcc tcgagaggct tctccccttg 2880 ttgtcatcag ccagccggct cccatttctc ctcacctctc tgggccagct gaggacagta 2940 gctctgactc ggtgagcagt ggaggagcct gtgcagaagc agtaaggagg ggcagggcca 3000 aacccaagtg tcccagcctg gagtgcagca cgatcttggc tcactgcagc ctctgcctcc 3060 tgggctgaag cgatcctccc acctcagtct cccaagagta gctgggacca caggcaggca 3120 cccccggcta attagagaag gaatcttagc tatccagggc tctctttttc ccaggggaga 3180 3240 ggaggcaggc ccagcctctc ttcagtgcca caccagtaga tatcatccca aaacccagac cagccccaat agcctcactg cttctcccc acagtcattc tcttattatt caccagcccc 3300 3360 tcaaaacgcc tctcctgcct cactcttcct aagcccctca ggtcactgtc ctagccttgg 3420 ctgctcttcc catacctgtc ccaatgtgct gctccccat cttgggacac caccccaaag cccaaccctg tctctttggc atccaggagg ctgaagatga gacagtcagt cctgatggca 3480 gctgtgcaga gtgggggtga ggaggccaac ttactgcttc ctgaactggc cagtgccttc 3540 tatgacatgg ccaggtgagt tcaaccagca aggccaggag ggcggtggga ggaggtcaga 3600 gggaaagggc atctgtgtgg acagtcacca ggccctgctc ccaacccctg cccttcttgc 3660 ctcagccaag aaaaggagat acaggtatgg ttaacaagga aaatgactca ctgctccaaa 3720 tcccagatgc cttcaggtaa tccctacccc tatcttatca atgcactcag aggtcctgcc 3780 tttaactggc ttctatgttg ttctagcacc atcttctgca gagcccaaat tgccctgctt 3840 cccctctctc ctgcctctac cccttcccca accaccaggt aggtacctag ggtcctccgg 3900 ggaggaaggg aggtgaccat ggcccccagg gataggagca gagagaagac tgggatccag 3960 4020 catccatctg gctacaactg aaatgctttc cctcttccct gacttccctg ggtaaccctt agggaaggga acctatagag gtgggggttt caggtatcag attgtcccct tctgccttcc 4080 cttttattcc caggttcaag ggggcaggca cagggaagag agatttgatc atctagtccc 4140 ggttttgcct ggatgtgaga tgggctcagg gcagggaggg ggtgatgctg tcatccttct 4200 cggctggagc aggaagatga aggacgatgt cagactcatt ttcagcctca ttaggcagca 4260 gacggagatg gagggaggag agcaggaggc tgggggatgg gctctgcact gcagagacca 4320 gcagggacta aagaagagag gacatgggga actggaaaaa taagccttcc aggattgtgg 4380 ggagaaagac gctgtgggag aggccaggat gctgcattag gcacaggata acctgggaac 4440 ccaggcacat gggtcctgct ctccgaagtc tgcaagtcaa gaagggaaca gagcacgccg 4500 accetetece ttteceetet gtetetetta gtggetttae agtgggtace etgteagaaa 4560 ccagcactgg gggccctgcc acccccacat ggaaggagtg tcctatctgt aaggagcgct 4620 ttcctgctga gagtgacaag gatgccctgg aggaccacat ggatggacac ttcttttca 4680 gcacccagga ccccttcacc tttgagtgat cttactccct cgtacatgca caaatacaca 4740 ctcatgcaca cacacactca cacacatgca tacacttagg tttcatgccc attttctatc 4800 acactgggct ccatgatatt ctgttcccta agaactgctt ctgtgtgccc tgttttcatc 4860 ccaagatttc tcacttcatc ctctcctacc tggctctttt gtcccaggga ggggtcctgt 4920 tcggaagcag tggctgaatt tatcccctga aagtggtttt ggaggaaccg ggatggagga 4980 ggccttcccc tgtgggaata gaatcgtcca ctcctagccc tggttgcttc tgatacacag 5040 ccactgcaca cacactca cactcacact cccttgtctg atgccccaaa gccaattcct 5100 ggggcaccct accctctctt atttggagtt tccgttggtt tacctgagtt ttctctgggg 5160 tctgcacaga ggcagcagca tggacatcat ggcctctcag gtcccttttg gttctcagtt 5220 5280 tcattggttc ctctttctgt tcccccattg acttctgtgc cccaccctag ccttttccat 5340 aaccttaggt attcagtttg gaggggtttt ttgtattttt gaggattcct gtattctgta tecteteete geateteete acatggaaag aaataatgta titgtgeett etgtgaggaa 5400

	aagtggtccc aataaaagct atgtatga					5460 5520 5538
<210> 2108 <211> 5537 <212> DNA <213> Homo	sapiens					
<400> 2108						
	gacccaaggc	tgcgatgctg	gatacctcaa	tttgggagct	ggagactgga	60
tatgcaggat	tgagttattt	gagctgagaa	cccaagaagg	gctggcaata	gctgaaggct	120
	ttaaatctga					180
	cccaacacac					240
	ggcacaacag					300 360
	ggagcagagt					420
	aggccaggcc caagggcaag					480
atggctaaag						540
	gctgatgaat					600
	ctggagccct					660
aagccagcag	aaagccaccc	ttcttgggga	ggagttggcc	agtgcagcag	cagccaggga	720
ccgcaccata	gccgaactac	accgcagccg	cctggaagtg	gctgaagtta	acggcaggct	780
	ggtttgcact					840
	agtgtggagg					900
	gtggggactc					960 1020
	agaggacttg					1020
	atccctaacc tttctgtcct					1140
	gtcatgtcct					1200
	ctaaaaatga					1260
	gcgttccttt					1320
	agaaggacaa					1380
gcagttcagg	aggagaggac	ccaaaaccaa	gtgttcaaga	ctgagctggc	ccgggagaag	1440
	tggtgaggca					1500
	ttctctctgt					1560
	atttcacttg					1620
	ggcacacatc					1680 1740
	gaccaaggcc agactaagac					1800
	gttgggaatt					1860
	ggttctagat					1920
	cagattccat					1980
gggagctgac	agagctgcgg	tcagccctgc	gtgtgctcca	gaaggaaaag	gagcagttac	2040
aggaggagaa	acaggtgagc	acccataacc	caggccccgt	ggatgccaca	ggtgaggact	2100
	aaactttgta					2160
	accctggctt	_	-			2220
	gggatgtaag					2280 2340
	tttgctgaag gctagcaagg					2400
	gaattgctag					2460
	tggaatgagg					2520
	cccaatcttg					2580
	accttgctgg					2640
	ccctgttta					2700
actcctcaca	acacatcctt	ttttcttctc	tgcctgcttc	atctcctaca	ggctgcccgg	2760
	agactcagag					2820
	tggagaccca	-				2880
-	ccagccggct					2940 3000
getetgaete	ggtgagcagt	ggaggagcet	grycayaayc	ayraayyayg	ggcagggcca	3000

300

360 420

436

aatagtagac aaacag

aacccaagtg	tcccagcctg	gagtgcagca	cgatcttggc	tcactgcagc	ctctgcctcc	3060
	cgatcctccc					3120
	attagagaag					3180
	ccagcctctc					3240
	gcctcactgc					3300
	ctcctgcctc					3360
	atacctgtcc					3420
	ctctttggca					3480
	gggggtgagg					3540
	aggtgagttc					3600
	ctgtgtggac					3660
	aaaggagata					3720
	ttcaggtaat					3780
	tctatgttgt					3840
	tgcctctacc					3900
	ggtgaccatg					3960
	ctacaactga					4020
	cctatagagg					4080
	aggttcaagg					4140
	gatgtgagat					4200
	ggaagatgaa					4260
	agggaggaga		-			4320
	agaagagagg					4380
	ctgtgggaga					4440
	ggtcctgctc					4500
	ttcccctctg					4560
	ggccctgcca					4620
	agtgacaagg					4680
	cccttcacct					4740
	acacactcac					4800
	catgatattc					4860
	cacttcatcc					4920
	ggctgaattt					4980
	gtgggaatag					5040
	acacactcac					5100
	ccctctctta					5160
	gcagcagcat					5220
	tctttctgtt					5280
	ttcagtttgg			_		5340
	catctcctca					5400
	agtggtccca					5460
	ataaaagctt					5520
ttatatgata	_	cccccgaca	cocaccecc	egeageeega	acadacacac	5537
ccacacgaca	cgcacga					3337
<210> 2109						
<211> 436						
<212> DNA						
<213> Homo	sapiens					
220						
<400> 2109						
	gataatggat	atataatata	tccatcccaa	cccctcttta	ttgatcctcc	60
	gttaattata					120
	taagactatt					180
_	ccccatccc	_			_	240
	ccccatccc					240

tataaacttg ccggggtagt gggggttaat cagagaggaa ttatgagcca acatccccag caggaggtgc atttaatgaa atcatgtgtg atttattttc tgggggaggt tggggcgaga

agaatctggg acccacacct cctggcttcc agtgagtggc tgccttgtgc aaaaaaggag

				•		
-010- 0110						
<210> 2110						
<211> 368						
<212> DNA <213> Homo						
<213> HOMO	saprens		•			
<400> 2110						
	gattgttcaa	acceaaaat	traaaarrag	cctagacaac	ataataaaa	60
	caaaaaattt					120
	gaagctgagg	_				180
	gcacccctga					240
	ggggtgtggg					300
	aataaagttt					360
gttttatt			9.99			368
9						
<210> 2111						
<211> 436						
<212> DNA						
<213> Homo	sapiens					
<400> 2111						
	gataatggat				_	60
_	gttaattata	-	_		-	120
	taagactatt	-				180
	ccccatccc					240
_	ccggggtagt				_	300
	atttaatgaa					360 420
	acccacacct	eetggettee	agrgagrggc	tgeettgtge	aaaaaayyay	436
aatagtagac	aaacay					430
<210> 2112						
<210> 2112 <211> 8896						
<211> 8896	sapiens					
<211> 8896 <212> DNA	sapiens					
<211> 8896 <212> DNA	sapiens					
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc	tgtgtgtcgc					60
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcgggtg	tgtgtgtcgc ggggcgccat	gtggttcatg	tacctgctga	gctggctgtc	gctcttcatc	120
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct	tgtgtgtcgc ggggcgccat tcatcacgct	gtggttcatg ggctgtcggt	tacctgctga gagactgcac	gctggctgtc gaccccggcc	gctcttcatc cgcgcgggct	120 180
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct	gtggttcatg ggctgtcggt cgttgggggt	tacctgctga gagactgcac cgcatcgcgg	gctggctgtc gaccccggcc gggtttcgga	gctcttcatc cgcgcgggct gccactcggg	120 180 240
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct ccggcgctcc	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc	tacctgctga gagactgcac cgcatcgcgg cgccccaacc	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc	120 180 240 300
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct ccggcgctcc agcctggcag	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc	120 180 240 300 360
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcc	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta	120 180 240 300 360 420
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa ctcccactct	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcc gccgcgcgga	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc	120 180 240 300 360 420 480
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg	tgtgtgtcgc ggggcgcat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa ctcccactct	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcc gccgcgcgga ccctgctctc	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc	120 180 240 300 360 420 480 540
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt	tgtgtgtcgc ggggcgcat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga	tacctgctga gagactgcac cgcatcgcgg cgcccaacc ccgtggctcc gagtgccgcc gccgcgcgga ccctgctctc gatgtcatct	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg	120 180 240 300 360 420 480 540
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt	tgtgtgtcgc ggggcgcat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc	tacctgctga gagactgcac cgcatcgcgg cgcccaacc ccgtggctcc gagtgccgcc gccgcgcgga ccctgctctc gatgtcatct cctaaagtag	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa catttctcac	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg	120 180 240 300 360 420 480 540 600 660
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggtg cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt gttgatggtc tctgtctc	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcc gccgcgcgga ccctgctctc gatgtcatct cctaaagtag tcccaagctg	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa catttctcac ggtcagggaa	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt	120 180 240 300 360 420 480 540 600 660 720
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt gttgatggtc tctgtcttct	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcgcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcc gccgcgcgga ccctgctctc gatgtcatct cctaaagtag tcccaagctg	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa catttctcac ggtcagggaa catgccaagt	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg	120 180 240 300 360 420 480 540 600 660 720 780
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt gttgatggtc tctgtctttt tgtttattga	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct ccggcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgc gccgcgcgga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gccagcagg tactgtggca	120 180 240 300 360 420 480 540 600 660 720 780 840
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt gttgatggtc tctgtctttt tgtttattga tcaaatgcag	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcggcgcca agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgccct	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagttt	120 180 240 300 360 420 480 540 600 660 720 780
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt gttgatggtc tctgtctttt tgtttattga tcaaatgcag tacttctca	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcg gccgcgcga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgccct gtttgttctt	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttccc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagttt gaccttctgg	120 180 240 300 360 420 480 540 600 660 720 780 840 900
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt ctgtctct ctgtcttt tgtttattga tcaaatgcag tacttctcca ggtccatgaa	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcggctcc agcctggcag tgcccgagaa ctcccactct cgcctcttcgg tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag gggtggatgg	gtggttcatg ggctgtcggt cgttgggggt cggccttcac cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcg gccgcgcgga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg gcagagagag	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgccct ggttgtctt	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagttt gaccttctgg gatggtggga	120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctgt gttgatggtc tctgtcttc ctgtctttt tgtttattga tcaaatgcag tacttctca ggtccatgaa gtgaccctgg	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcg gccgcgcga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg gcagagagag caccctgcag	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgccct ggttgtctt gggtgaccag cggctggact	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acactctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagttt gaccttctgg gatggtggga ctattacctg	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcgggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgcctttg tctggctggt gttgatggtc tctgtcttct ctgtctttt tgtttattga tcaaatgcag tacttctcca ggtccatgaa gtgaccctgg gcagaactga	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcgctcc agcctggcag tgcccgagaa ctcccactct cgcctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag gggtggatgg ctgatagtct	gtggttcatg ggctgtcggt cgttgggggt cggccttcac cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcg gccgcgcgga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg gcagagagag accctgcag accctgcag accagcagga	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgccct gtttgttctt gggtgaccag cggctggact tcataaaata	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagttt gaccttctgg gatggtgga ctattacctg catgatctgg	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt tctggctgt tctgtctct ctgtctttt tgtttattga tcaaatgcag tacttctca ggtccatgaa gtgaccctgg gcagaactga gtaagtggca	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcggctcc agcctggcag tgcccgagaa ctcccactct cgcctcttcgg tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag gggtggatgg ctgatagtct tagaagaata	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct ccttcatgt ccttccctt cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgcccaacc ccgtggctcc gagtgccgc gccgcgcgga ccctgctct gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg gcagagagag accctgcag accatgcaga accatctttt	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgccct ggttggaccag cggctggact tcataaaata gccctgcctc	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagttt gaccttctgg gatggtggga ctattacctg catgatctgg aaaagcagga	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtg caggtggcct cccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgctttg tctggctggt tctggctgg	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcgctcc agcctggcag tgcccgagaa ctcccactct cgctctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag gggtggatgg ctgatagtct tagaagaata tctttctca	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct cctcagttga ctgtcctttc ccctccctt ctcagccag ttccgtttc attttatga ggcaacacat ggactggct cctgcctcc cacagtggcc ggagtcctcc gatgatgagg	tacctgctga gagactgcac cgcatcgcgg cgcccaacc ccgtggctcc gagtgccgc gccgcgcgga ccctgctct gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg gcagagagag accctgcag accatcgcag accatctttt cctgtgtctc	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgcct ggttgtctt gggtgaccag cggctggact tcataaaata gcctgctc tgctgtttc	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagtt gaccttctgg gatggtgga ctattacctg catgatctgg aaaagcagga tgagcataca	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1140 1200 1260 1320
<211> 8896 <212> DNA <213> Homo <400> 2112 cggtggcggc cgggcggtgcct ccgcccgg ggaccactgc cctcctgtcg gctccggcac accgctgcgg gccgcctttg tctggctgt tctggctgt tctgtctct ctgtctttt tgttattga tcaaatgcag tacttctca ggtccatgaa gtgaccctgg gcagaactga gtaagtggca agtggggaga ctcttacctc cctggcgc	tgtgtgtcgc ggggcgccat tcatcacgct catcggtgct cagcgctcc agcctggcag tgcccgagaa ctcccactct cgctctctggc tcccattcgg cagcagtgcc cctactgttc cagctgtatt atacgtgaaa actttcgttg gacttggaag gggtggatgg ctgatagtct tagaagaata tctttctcca gtttggcatg	gtggttcatg ggctgtcggt cgttgggggt cggccttcgc cccggcctga agggtgactc tcgcgggcct ccttcatgct ccttcatgt cccttccctt	tacctgctga gagactgcac cgcatcgcgg cgccccaacc ccgtggctcc gagtgccgcc gccgcgcgga ccctgctctc gatgtcatct cctaaagtag tcccaagctg ggacctggct tgagccagag gatttgtcct gggatgtttg gcagagagag accctgcag accagcagga tcactctttt cctgtgtctc ttgggtctgc cactgcaggc	gctggctgtc gaccccggcc gggtttcgga ccttcccgcc ttccaggtgt cccgcgtctg acttttcccc tccacctttg tttccgggaa cattctcac ggtcagggaa catgccaagt gttatcattg tagttgcct ggttggaccag cggctggact tcataaaata gcctgctc tgctgttcc actcctgggc cttgtgctct	gctcttcatc cgcgcgggct gccactcggg tgatcctgcc cacagagtcc cggaccgcta aacgcctacc acacttctcc gtccacaggg actaaactcg ggacccttgt gcccagcagg tactgtggca aagaaagtt gaccttctgg gatggtgga ctattacctg catgatctgg aaaagcagga tgagcataca ccagatcttc agtccttaag	120 180 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200 1260

tcccgctgtc tttagccctt tgctctgctc acagcattta aaacttagag gagccataag 1500 1560 acagttttgc atatatgttc attgccatct ttctaatcgg atcaagtgat ttgtcctaag 1620 atcggcacag cttcgctgcc ctcgcccttc cctggtctca tgggaggctt ctcttactga 1680 agacacagtc cttgccactg atatcaaagc cataggggtg actgctggtg gacagacttc 1740 cttcagctgc aggaaaggct gggggtaggg gtgccattgg agagaaagcg tccacagccc 1800 ctcaagtcgc ctggtgtcag cagccatgtg cactctgggc atggctgagg ttgggagttc 1860 acaqtqqaqq caagactata gccctcagct ctggtccaga ggcccagctt gtgggtgttg gcacagtaat tagcccttca ttcagccaac tgtcatttgc taagcactga caactgtagg 1920 1980 tacttatcag tagtgttttt caaactgtag gcatgattca ttatttggct gtatagtagg 2040 tcacaatcag catttttaa aaaaaggaac ataaatagaa ttgaaatttg agctttgaat 2100 catatatatg tatatatgtg ttggggtcac agtgtaaaat gtttttcttt ttctttttt 2160 ttttttgaga tggagtttcg ctcttattac ccaggctgga gtgcagtggc acaatctcag ctcaccgcaa cctctgcctc ctgggttcaa gcgattctcc tgcctcagcc tcccgagtag 2220 2280 ctgggattat aggcatgtgc caccatgcct ggctaatttt gtatttttag tagagatggg gtttctccat gttggtcagg ctggtcacaa actcccaacc tcaggtgatc tgcctgcctt 2340 ggcctcccaa agtgttggga ttccaggcgt gagccacctc gcctggcaga tgtttttctt 2400 actgtgggtt gctgtcaaaa agtttgagaa atgggctggg tgcggtggct cacacctgta 2460 atcccagcac tttgggaggc catcagaagt ttgagaccag cctggccaac atggcaaaac 2520 2580 cctgtctcta ctaaagacac aaaaattagc tgggcgtggt tgtgcatgcc tgtagtccca actactcagg aggctgaggc aagagaattg cttgaatcca ggagatcgcg ccactgcact 2640 ccagcctgga tgacagagtg agactccgtc tcaaaaaaaa aaaaaaaaat gttgcctttt 2700 gggagcagag aacctagctg gggaggccag acctgtgaaa tgaggagatt gaagcatgaa 2760 cctagtgctg cccagagcgg gctgggggtt ggtgagtcca ggaacgttgc ctggaagaag 2820 2880 cgccctgcac tgtctgcctc tggttgtttc agttctccac cgctgtactg attggcctct 2940 acgtctttga gcgcttcccc accagcatga ttggagtggg cctattcacc aacctcgtct actttggcct cctccagacc ttccccttca tcatgctgac ctcgcctaac ttcatcctgt 3000 cgtgtggtga gaggggacag agttggggag gcagctgatg tggttgggtg tgcccatctc 3060 3120 catcctgggc actaaagggg atacagaaaa aggaagccag ctgttgaagt cctccaggaa gccaggctag ttgggaagat gcggttctta ctgctgagga ctctagagcc caccttggct 3180 ctagtgaata gaatttgttg gggctgggga ctcagacagg gagggctttc ccagagaggt 3240 aagtttgaag gagagtttgg gaaagaagag gttgtggatt ggctgaggca gggcccccaa 3300 ctgagcagtt ccagcctcaa aaaaaccact tggccagaaa aagcccaaag cccttccggt 3360 3420 aggcaggcag ctgtccgtcc agtcctctga cccaaagtca ttgttaggac tggagcctca 3480 tggggctgtg agcaccttgc agactctggc ctggtgtgaa tgcctcctgg gggctgcagc 3540 ttctcatctc attctcactg gctgccgctg cctcgggctt gagcctggat gtggaggacc cagtettett ggegttgeee tgeeaceact ttetgaeeet ggggaateat tggeeetete 3600 3660 tgggccttag cttctccatc tattcagaga ggatgtttct gaaagaacta ttgggagact 3720 cagtgggcat atagtaggtg catataggta tttacagata ttcctggaaa aggcttcgga 3780 aagtattttg gttgccaaga ttgccattgc tcctgttcat cattgctggc taccctagct 3840 ttcagtcagg gtatcagatg gagttagggg ttttttagag tgacttttct atttctatga 3900 gagagcctgg agggtgaata ttatccacac aaagggcata ttgttaaagc caaaactggt 3960 ttcttccttg ggtgtgattt caccaaagaa tttgttcagc agaggtttgt tagggagccc ttccatggag accaggcccc tctgtccagg gaagaagtcc tgccccagc ccctcagcag 4020 caggctcccc tgacttcact cccttgatct gccctttaat gcctaaaaga gtttttccaa 4080 4140 aagatettgt gggcaccagg cactatecta ceteccatta tetettagee etagagtgtg 4200 gctaggcata gcagaactgt agtctttgcc ttagaatggg agaggcagga gagaagaaag 4260 gagacatgag aattgctgtg aggtgtgtgt gaggggacag tcagtttcag gggacatgtt 4320 ctttctggtg cctgcccttc acctcaccat gggaaccggc agggatgact gtctcttgag 4380 cagectgtgt ccaggatatg cacaegtgee etetttata aacteagtta cacaecaagg 4440 aggggtggct gtgtgtgtgt gtgtgtccag aacgtatcag ttcacaccgg tatgccttac 4500 ctgggggcag gatgaggagg gacccctcc cccagaatgt tgaggaacct gaagactgca 4560 cctcaaagca tctagcaagt cttgcccttt tattcctgag gagtgagagc ctttttattt 4620 gagcaggcct teteettget geccagtttg tttatttgag caggeettet cettgetgeg 4680 agtttggagt agageetett aggggegtet ggtetgeaca eccatgattt etececacet gtcactgtgg gagagctttc tttagccctc acatccacga aaaacgaggt tcatcgtcat 4740 4800 gatgctttgg attatgtaac atagaagtct cacttttata acatgcaaag agccttcttc 4860 taattttact cagaatgccc tgtgcagtgg gcaggttgag gctcattctc ccattttagc 4920 agatgggaaa cggttctagg cagtagccta ctctgagttg agtgtaaagt caggcctaag 4980 actccatgga ggctcccaac ttctgagggc cttttgaagt taaaagtaca gctttctgtt 5040 attcccctta aactgactga ctcttcattc cctcaacagg actagtggtg gtgaatcatt acctagcatt tcagtttttt gcagaagaat attatccctt ctcagaggta agaagtgtcc 5100 agcacattca gctgttaaca gggacagggt agtaaaaggg aacttgcatg gtttacttta 5160 5220 taaacttagc tatgatttga aactgaatct gttcaaggat tacatgtttg aaaaaaacaa 5280 aacatagatg gtttgagaaa gctgtgtgga tggggacaga ctgtgctcat ttggccgagg 5340 tggggaggac actgctcttc ctcagtgagt cctttgggtc cccctcgagg ggtcatcctg 5400 aggtcaggaa ggggtactag ggtgaccttc tctgacacag tcctcacagg gcagggatgg 5460 actgcacccc tgagccccag cttttcccag tggccgccaa ggttttcttc tcccacgatt tctccacacc ctgctgctcc agtttgaacc tctgggaaga gcaaggtcac ttctttgggg 5520 5580 ggtgtgggtc agtcagtcat ggcttagcac tttgtctgcc tccttcagtc caggggagtt 5640 gcttgtccta gcgaccaaga tatggggttt gtggccacat tcagtcattt tcagcctcca 5700 cctttcccca cagaaggatt tccatgtctg agggtggcgt tccctgcttc ccaggcctgg 5760 gcccctttg gagatcaggt gtggccccct gtgcactctt gaccaacacg cagtcaccac acccagecca etettggeae eteeggggea ecetettete agtetetett gttgecaggt 5820 cctggcctat ttcactttct gcctgtggat aattccgttt gcgttttttg tgtcactttc 5880 ggccggggag aacgtcctgc cctctaccat gcagccagga ggtgagaagg gatttgtaag 5940 6000 gggcccaggt gggggcaagc cagcaaggcc tgggttggca ggggtccact gagggaacct gaatctagcc ctgtgttgga gacacctgga ctcggggttg ggagggccgt gttcacacac 6060 atgcgcacac acacacaca actetetete teteteatat tettgeetgt atetecacag 6120 atgatgtcgt ctccaattat ttcaccaaag gcaagcgggg caaacgctta gggatcctgg 6180 ttgtcttctc cttcatcaaa gaggccattc tacccagtcg tcagaagata tactgacccc 6240 catgcaggca ggatgtgggg ggcaagatca ggagagtcag gcccctgggc ctctatgcca 6300 ggtggggacc agaagtcggg aaggcaccta ccacctgccc tggctttctt cccctcaact 6360 6420 ctggagcccc atccccaccc tccttggggg gctcagcttg gctcagatct gatgcttcaa gaggctgtaa cctcagaggg caccaaggag ggtggcagag cctgcttagc caggaggccg 6480 6540 aggtccctca gtcctccct gtcccttcca aggtgggtca ggaggttctg gccccgctgg ggcaggcagg gcagggtctg tgaagcttaa gagcagatgg tgacaagttc tctgggcagg 6600 tggccatggg gaggggccat ggcttggcat gtccaacaga aatagttttt gctgttgaac 6660 6720 ggtgatttct gtccaagtgc agatttccgt ttgaataaag cttcgcttct aggtggcact 6780 gtttgcctta ataccctgac agttcatctt cctttcttcc tgctaacctt ctgctctgga ctggactcac ttttctgctc cagggactcc ttttctgggt ttgggtcttg cccttcccaa 6840 gggactgttc ttgtggccct taatgggaag ggggcagggg tgaggagctg agcctgctca 6900 6960 aggagtggga agtggggcta taggcagcct ctctgatgca ctctcttcca tctcttccc caaggctccg tgactgtcaa actgggagta ggagagggga caatttagga ctgggctaga 7020 7080 ttttcagaag aacatctaca atatcctatt tataaatctt cctctgggaa aaggagtggt ttctggctga atactatctt aggctcaagg agaaacaaaa taaaaattag cttccaggca 7140 7200 gcctgttttt aaagaaatgg gactaatggg agaagctgtt tgtcactcta agagcatcca 7260 agccctggcc cgtctgtgca ctcttggctc ctggggagat atatctgcct tctaagaagg 7320 caggccaggt cttgggcaca gacctgcatt tgttgacctt gcactccaac tatagtgcct 7380 tgcaagtgct caacagtaca tattggaatg aagtccctat gagagccatt tctggccatg 7440 ttctatacct caaagtgagg ctggcaggta cagagatgaa ctgtacacat gtgatacatt 7500 taagccactg gaaaaacccc tgtgcttgaa aatatttcct ctatatcatg cctggagttc 7560 catcatagcc cttcatttcc ttggctttag catttacctt ctcttaagaa taccagcttt 7620 cccctttccc tgagaggaag agcacatgtt ggtctcctct tagtgtgaac gagattgcca 7680 ggcccttttc tcctatgcac accaggatag acaaggcagg ggatactggc agcctgcatc atceteccat tgggetgaca getggeecta ettteeteee tetgetgett ggteeeteae 7740 7800 cttgatgatg tggcttcgcc ccctccactc tactgccagt gttctcccag ggcttgctaa 7860 atccagcaga cccctttcct gtcttactag atctgggcag catttgacat ggctgatcac 7920 cccttgcttc ttggatggca cttccctggc acctctgtgg ctagttgtcc tacctccctg 7980 gctgttcctt tcaggcttcc gtgcaggctt ctccacttgc ccatgcacag tagggtcttt cagggttctg ctgtgggctc cctagggaag cccatccatc tggatggttt caaggatggt 8040 gaggaattta gagttgacct ccagccccaa catccttcct gatcacctga accacagttt 8100 8160 tgctgccctc taggtgcaca gacaattcag gtccatggcc cagatggtac ttgctgtctt 8220 ctgcaaacct gcccttctg ggtacttccc ttgaccccga gatcactcag gagccagaca ggaaacttat totattootg ttttotottt otgoccacca catccaatct otcaaaacgg 8280 tcaggtctac cttaacatct cttgatttga gccactccca ctgtcatcag ctttcacctg 8340 gattatcgtg acagcctcct actgcttctc tatcatgtgg ccagagctat cttcctaaaa 8400 tgcattgcat agttgatcaa gtcactctct ggcctaaaac cttccttggc tccctgctgc 8460 cctcaggata aagtctggac ccctcagcat ggcttgtgag actcatggtg tccttgtccc 8520 tgctcacctc tctggtctca tcacttgcct tcttgcattc tgggtcccag cctcctgtat 8580 ccagagatgc agtggctctc cattgccact ctgattcctc ctttcttttg gtcacagaga 8640 aagggtactt tetetgteaa ateteaaett agaettgaet teeteeaagg agetttgget 8700 atactetete etecegacee ceaceetgge atactacaea gateaetetg ggeteaettg 8760

	attaacagtg	ccagtagact cctggcttgg				8820 8880 8896
<210> 2113 <211> 854 <212> DNA <213> Homo	sapiens					
agettagage teetteeate tgacaacttt ttggatttee cetggggtet ataggeacee actgggetge ggeagggtgg teacgeaggt ctgggeactt catacaegtg acceagtgge	ctgcagcagg ctggaagcct tacaatgcca tggcggcggt gggcttttga ctccccttt ctcagggga ggagtccttg tcatggccag ccctcatgct ggtacagcat cgtccactgt	gggggacata aagggcttaa gggcccttag aggtgaagaa ggggggtgc ttgggaaggg cctcgcacc gaggtagcca atgagatcgc agtgtcggtc gatggggtaa gcgcagcagc gtgcagcagc ctccggagtg	tctgaacaag ggctgggagg tagtgtctga caagagattt tgactcctcg cacaacgtga taataacttt acagctgcca cagaaggtgt aagccctggg acctcaaaag gcaccgcgt	aaacagaatt gcagtgggg cccccactc atttgcagag agcttgggag attgccacac atgggttggt ggaaggcttc tgtcacccag gcaccttcat gcagccgcgg gcccatcagg	tcccagtggg tgccaaaatg tcaacctaac aaaagggagg tgggaagccc ttcagccttc ttgtgggag atcgaatgtg gtgccgcttc tctgtatggc cacgggcgcc cctcacctcc	60 120 180 240 300 360 420 480 540 600 660 720 780 840 854
<210> 2114 <211> 397 <212> DNA <213> Homo	sapiens					
acaaggacta tccagcgcct gtgcagaatg aaaatcaccc ttggccccgg	accggttcca agcggacgcc taccccaaaa caactcctga cttccccgtc	tttgcatgcc ggtgccctc ctgcgtgccc gaacagccta ttgtgccgct tataaaatga cagagcgtgg	aggaaccctc ggcaaggggt gaggggaatt tcctaggtgc tttacattat	ccagaggtgt gaggtgcagg aggccggagg atgacccagg	agtaaatgca cgatacaaag atgaccgatt gcaacttcct	60 120 180 240 300 360 397
<210> 2115 <211> 364 <212> DNA <213> Homo						
actctctcag aaaaaccacc aatgcagctg atgtgagtta	aaacaggatt ggccaggcgg ctggcgccca gcacgacagg gctcactcat	tgaagggcaa atacgcaaac tttcccgact	tcagctgttg cgcctctccc ggaaagcggg aggctttaca	cccgtctcac cgcgcgttgg cagtgagcgc ctttatgctt	aacgcaatta ccggctcgta	60 120 180 240 300 360 364
<210> 2116 <211> 686 <212> DNA						

```
<213> Homo sapiens
<220>
<221> SITE
<222> (95)
<223> n equals a,t,g, or c
<400> 2116
                                                                       60
caccaaggcc agtttggaag cgaacggcta ccccgaaatt aagatactac agcgtgagtt
                                                                      120
atgagaaagc gccacgcttc ccgagggaag aaagncggga cagttatccg gtagccggca
                                                                      180
gggtcgaacc agaagagcgc acgaggagct tccaagggga aaacgcctgg tatctttata
                                                                      240
gtcctgtcgg gtttcgccac ctctgacttg agcgtcgatt tttgtgatgc tcgtcagggg
                                                                      300
ggcggagcct atggaaaaac gccagcaacg cggccttttt acggttcttg gccttttgct
ggccttttgc tcacatgttc tttcctgcgt tatcccctga ttctgtggat aaccgtatta
                                                                      360
ccgcctttga gtgagctgat accgctcgcc gcagccgaac gaccgagcgc agcgagtcag
                                                                      420
tgagcgagga agcggaagag cgcccaatac gcaaaccgcc tctccccgcg cgttggccga
                                                                      480
ttcattaatg cagctggcac gacaggtttc ccgactggaa agcgggcagt gagcgcaacg
                                                                      540
                                                                      600
caattaatgt gagttagctc actcattagg caccccaggc tttacacttt atgcttccgg
                                                                      660
ctcgtatgtt gtgtggaatt gtgagcggat aacaatttca cacaggaaac agctatgacc
                                                                      686
atgattacga attcgagctc ggtacc
<210> 2117
<211> 364
<212> DNA
<213> Homo sapiens
<400> 2117
                                                                       60
aaccaccatc aaacaggatt ttcgcctgct ggggcaaacc agcgtggacc gcttgctgca
actctctcag ggccaggcgg tgaagggcaa tcagctgttg cccgtctcac tggtgaaaag
                                                                      120
aaaaaccacc ctggcgccca atacgcaaac cgcctctccc cgcgcgttgg ccgattcatt
                                                                      180
aatgcagctg gcacgacagg tttcccgact ggaaagcggg cagtgagcgc aacgcaatta
                                                                      240
atgtgagtta gctcactcat taggcacccc aggctttaca ctttatgctt ccggctcgta
                                                                      300
                                                                      360
tgttgtgtgg aattgtgagc ggataacaat ttcacacagg aaacagctat gaccatgatt
                                                                      364
acgc
<210> 2118
<211> 288
<212> DNA
<213> Homo sapiens
<400> 2118
                                                                       60
attaagcgcg gcgggtgtgg tggttacgcg cagcgtgacc gctacacttg ccagcgccct
agegeeeget cetttegett tetteeette etttetegee aegttegeeg gettteeeeg
                                                                      120
tcaagctcta aatcgggggc tccctttagg gttccgattt agtgctttac ggcacctcga
                                                                      180
ccccaaaaaa cttgatttgg gtgatggttc acgtagtggg ccatcgccct gatagacggt
                                                                      240
ttttcgccct ttgacgttgg agtccacgtt ctttaatagt ggactctt
                                                                      288
<210> 2119
<211> 288
<212> DNA
<213> Homo sapiens
<400> 2119
attaagegeg gegggtgtgg tggttaegeg cagegtgaee getaeaettg ceagegeeet
                                                                       60
agegeeeget cetttegett tetteeette etttetegee aegttegeeg gettteeeeg
                                                                       120
tcaagctcta aatcgggggc tccctttagg gttccgattt agtgctttac ggcacctcga
                                                                       180
ccccaaaaaa cttgatttgg gtgatggttc acgtagtggg ccatcgccct gatagacggt
                                                                       240
                                                                       288
ttttcgccct ttgacgttgg agtccacgtt ctttaatagt ggactctt
```

<210> 2120						
<211> 149						
<212> DNA						
<213> Homo	sapiens					
<400> 2120						
aaacaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aagaaaaaaa	aaaaaaaaa	60
aaaaaagaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	120
aaaaaacaaa	aaaaaaaaa	aaaaaaaa				149
<210> 2121						
<211> 151						
<212> DNA						
<213> Homo	sapiens					
	•					
<400> 2121						
aaaaaaaaa	aaaaaaaaa	gaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaacaa	60
aaaaaacaaa	aaaaaaaaa	aaaaaaaaa	taaataaaaa	aaaaagagaa	aaaaataaaa	120
ataaagaaat	aaataaaaaa	aaaaaaaaa	a			151
•						
<210> 2122						
<211> 202						
<212> DNA						
<213> Homo	sapiens					
<400> 2122						
_			aaaaaaaaa			60
aaaaaaaaa	aaacaaaaaa	taaaaaaaaa	aagaaaaaaa	aaaaaataaa	aaaaaaata	120
aaaaaaaaca	aaaaaacaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	ataaacaaaa	180
aaaaaataaa	acaaaaaaa	aa				202
.010: 0103						
<210> 2123						
<211> 4171						
<212> DNA	•					
<213> Homo	sapiens					
<400> 2123						
	aaaaaaataa	+~+~+~+	aaaaaaataa	anathagaant	tanaatattt	60
			gcacaactca			120
			tgctgacacc			180
			ggccagcaag			240
			gggcacggtc aaaataggag			300
						360
			ttcttctctt			420
			tggcacaatc			480
			agtctcccaa			540
-			aatgaggtct			600
			catctcagcc			660
			cctcaattta			720
			ctcttcgtga			720 780
			agtaggaagc			780 840
			gctggagaag			900
			acccatgaca			900 960
			gggccctaaa			1020
			agcaaaaatg			
			tttgtgtgtg			1080
cagagagtgt	grgrgrgret	gtgtatacat	acacatatat	ayıyacaagg	ayiyagagig	1140 .

		ttctttggga				1200
cagcactgag	ataagaaaac	aagtaagctt	gcaggtctac	cctttgaaaa	tttgtgattt	1260
		aaacacacaa				1320
		gggaattcag				1380
		atttatgtag				1440
taagtctagg	aagaatccca	gttggagaaa	agggcattag	tggtagtttc	tgctcagcaa	1500
		aaccctttcg				1560
		atcctccaca				1620
		tccttagggt				1680
		aaggagaaaa				1740
		cttagggtca				1800
		tcatgagcat				1860
		ctttctcttt				1920
		tagcagggac				1980
cagatctgct	tctgggtcct	ctgggagggc	tgcgggttgg	cacagctcca	ggatgagaag	2040
gtcaaagatg	cctaaagatg	ctgggtattg	agcccagtgt	ttaggttgaa	tgtttcctgt	2100
		ggtgtgtgtc				2160
ggaggcagga	ggtacaagag	aagcagacct	tgtcttagcc	ttcattcacc	ctcattctct	2220
gtgcttttgg	ttcccaggtg	gagtatggcc	cctgtgtggt	agctagtgac	tgctggagtc	2280
		agttttctag				2340
		gtctacggcc				2400
		cagcagcagg				2460
cagctgccag	ctgagctctg	tcaccagggg	tactccacag	gaggagcagg	tgctgacttt	2520
		acccagggta				2580
		ggggctgagt				2640
agccccccat	cagctgtttt	actccgtgcc	ttactggatt	tggcctgtcc	tcaagaatgg	2700
taattatgaa	gagtggagaa	gtttggacct	tgcctccttt	aggggaaagg	taggacagga	2760
		tgggggaaat				2820
cccaggccaa	tggtgaacat	gctgcatttt	atgtttggat	tgtgctgtaa	taagagcctc	2880
		ggctgggctt				2940
		tctgacctgt				3000
tagggtgttg	cctgagtcct	ttgaaatctc	cttctgacat	ctttcccttc	tgttgtgaaa	3060
tatgttaagc	cacaggccaa	actgctataa	gatcgaagtt	tgttttttc	tcacctaata	3120
		tctagggcag				3180
gtttccttct	gtcttattca	gccattccca	gtatgttttc	ttacccataa	gatcaaagca	3240
		gcattccact				3300
		gcattgctca				3360
		ttatctgggc				3420
		acaatttggt				3480
		ccaggaatgc				3540
		tatgagttga				3600
		cacactagga				3660
		tctcatgcac				3720
		tggttcctga				3780
		tgcctgccta				3840
		gagatggtct				3900
		tatttgaagg				3960
		tgcaacaagt				4020
		tcagtaccat				4080
		ttttgtttct		attgaggtat	gttttagata	4140
tagtttacaa	aaataaaacg	cacagatctt	a			4171

```
<210> 2124
```

<400> 2124

60 120 

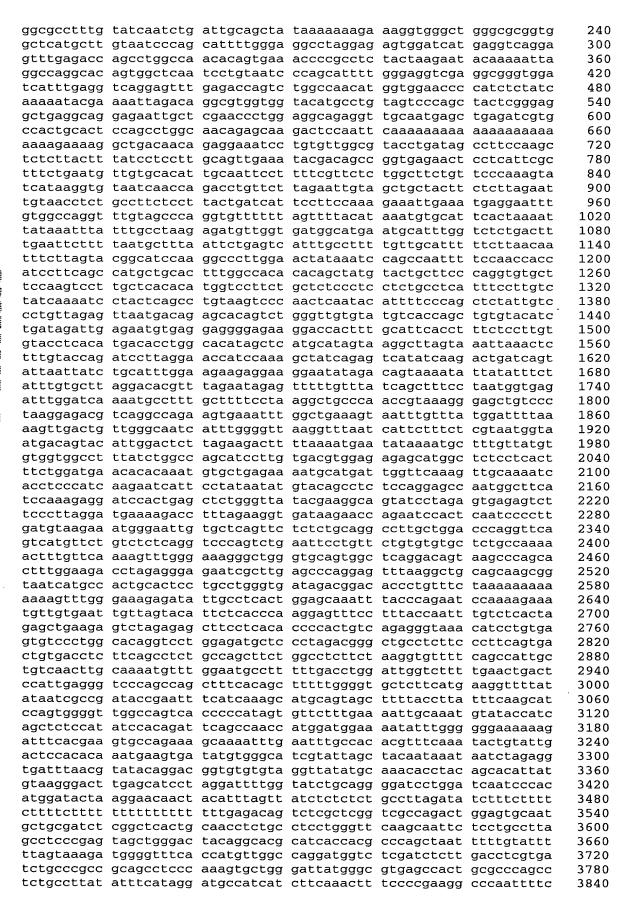
<sup>&</sup>lt;211> 158 <212> DNA

<sup>&</sup>lt;213> Homo sapiens

aaaaaaaaa aataaactaa aaaaaaaaaa taaaaaaa	158
<210> 2125 <211> 170 <212> DNA <213> Homo sapiens	
<400> 2125	
gaaaaaaaaa aaaaaaaaa aataaaaaaa aaaaagaaaa aaaaaaaa	60
aaaaaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaa	120
aaaaaaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaa	170
<210> 2126	
<211> 151	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> SITE	
<222> (4) <223> n equals a,t,q, or c	
(223) II equals a, e, g, of e	
<220>	
<221> SITE	
<222> (45)	
<223> n equals a,t,g, or c	
4220-	
<220> <221> SITE	
<222> S11E <222> (89)	
<223> n equals a,t,g, or c	
<400> 2126	
aaanaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	60 120
aaaaaaaaa agaaaaaaaa aaaaaaaaana aaaaaaaa	151
aaaaaaayaa aaayyyaaaa aaaaaaaaaa a	131
<210> 2127	
<211> 77	
<212> DNA <213> Homo sapiens	
V2132 None Suprens	
<400> 2127	
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	60
aaaaaaaaa aaaaaaa	77
<210> 2128	
<211> 77	
<211> 77 <212> DNA	
<212> DNA <213> Homo sapiens	
<212> DNA <213> Homo sapiens <400> 2128	60
<212> DNA <213> Homo sapiens	60 77
<212> DNA <213> Homo sapiens <400> 2128 aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	
<212> DNA <213> Homo sapiens <400> 2128 aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	

<211> 117						
<212> DNA						
<213> Homo	sapiens					
<400> 2129						
gcagtggcac	aatctcggct	cactgcaacc	tccgcctcct	gggttcaagc	gattctcctg	60
		gggattacag				117
•						
<210> 2130						
<211> 1940						
<212> DNA						
<213> Homo	sapiens					
	_					
<400> 2130						
atttgtaacc	aggctgtcat	tccatgtttg	tttggaagct	tagagataac	atttatgaac	60
		ctcaataaat				120
acttcagaaa	tagacactta	gagttcaaaa	ttcccatctg	cctagctcct	gaggcccact	180
ttcttaccag	aatctttcct	gataccctct	cctgcataaa	atggttcctc	ttttgagact	240
ttgtagctct	tttgtacttc	tcttattctg	ttacgttact	gcaaaaaaaa	aaaaaagaa	300
agaaaagaaa	agtgccaatt	gtgtacatgc	tttcctccct	gctggaatgt	aaactttgta	360
aaggcatgat	ccatagcaga	tacttcttat	tacaaactac	ctggcagaat	ttctttctaa	420
agaacctact	cagtaagcct	gttggtgaac	tgagcaacat	ttggacaatt	atggcatcat	480
		ggttttcact				540
tttataaaag	caaatttcag	aatagttatt	cactaagctt	ttttatgcta	atgatgtcat	600
		gtaaatggac				660
tatgttccac	atgtaacatc	gaaatgaaat	ataaaattga	gttgttggca	tgtggttgtg	720
		tacattactt				780
tacagtgagc	cagagattaa	aaataacatt	tgtttctgtt	ttagtaactg	cttaaaaata	840
tccaaaatca	ttttatttc	tttagcctga	cttctagtag	tgttttgaat	atgtggcctt	900
tcaagcagta	atgaaatgca	tcaatgcgac	ttggcagtgc	ctcacaggac	atgcttctag	960
gatcattttt	aatgattaaa	agtcaaattg	agttctaaaa	aactgaccca	aaatatagat	1020
gagccaagta	aaaacggaag	gaaatctgaa	taaaatcttg	gttcttggtc	ctctgcatgt	1080
atcctccaca	tctgttttct	ccagatctct	tttttcttgc	ttgttgatag	cacagaggaa	1140
gatcgcagag	agtaatgtac	tgtatatgtt	tcacatcccc	cttcctcttt	agtgatagtt	1200
tggagagtat	actgcagtca	ccatggtttt	cagtttggag	agtacaagga	tcagatctgt	1260
attttctaga	gccagctttt	gtggcattct	ggagaggtga	ttggagaacc	atgagagcag	1320
gcagacatct	gggtgagagg	gcacgagggg	tgagtgacgg	cagagccaga	cttgctggag	1380
aggcagaaag	ggaaggattc	aagtagcata	accaggaaat	agaattgata	ggatttggtc	1440
		gggggaaggc				1500
ggccacttag	tgatattggg	gtaccaggaa	caggcttagt	ggacccacag	aagtgaccag	1560
		gcccaccctg				1620
		agcttcagtg				1680
		caccaatgtg				1740
		attttgctga				1800
		tagatgacgg				1860
		cctgcacgtt	ctgcacattt	gtcccagaac	ttaaagtaaa	1920
aaaaaaaaa	aaaaaaaag					1940
<210> 2131						
<211> 292						
<212> DNA						
<213> Homo	sapiens					
400 000						
<400> 2131						<b>C</b> 0
_		tccatgtttg				60
		ctcaataaat				120
		gagttcaaaa				180
		gataccctct				240
ttgtagetet	tttgtacttc	tcttattctg	ctacgttact	gcaaaaaaaa	aa	292

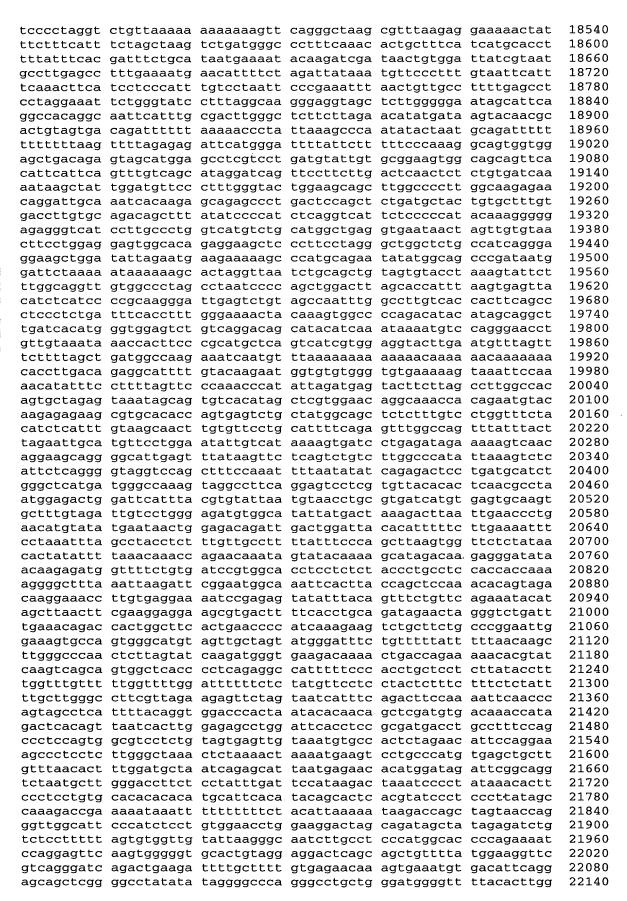
```
<210> 2132
<211> 689
<212> DNA
<213> Homo sapiens
<400> 2132
                                                                       60
aatttttctt ttaatgcagt atgacacaga aaacatttgg aggatgttga aaagtaattg
                                                                      120
tttaaattgg caaagacaca tttcagtaag ggagtaaaca agagggaaac gtgttggggg
                                                                      180
gaaaggtgtg gggaggaaac tctagaccag aggccctagg acttgaatat acaacttagt
                                                                      240
cctgttgaaa attcagattc ctgggcctta aagtatgtta aataggtcag gggtggggcc
                                                                      300
caggagttgt acttttaacg agcaccctcc tgtgattcat ttaacataaa aggtccttgg
                                                                      360
ctcacacttg gagaaacact gctgtagaaa ctcaaatacc tattttaaaa caaaggtaca
                                                                      420
ttttaatcat ttagtttaaa atgaaatcat tgcataatac tgatgttaga ggttagaata
                                                                      480
aacatgtact taagttcttg atattcttgt catttcagtt acatgtcagg gaatgtgatt
                                                                      540
tgtgttttga cgtattcaaa tccttgtcat attcaaccat attcgtattc aaaatatata
                                                                      600
atgattttga cccttgattg ttcgaattaa gactgtcatc ttttctgtgt gattaactct
tgtgttgata taaatatgcc tttggcttac taatgttcag taagaactaa tgactcttgg
                                                                      660
                                                                      689
gaatgttaat agactctgtg agtcccttt
<210> 2133
<211> 102
<212> DNA
<213> Homo sapiens
<400> 2133
ctatgggagg attgttgtta ttattgcttg atttacatgc tctcatttta tacaaagtgt
                                                                       60
                                                                       102
acagcacaat ttctcaaaga gtaattatga tgccaagaaa at
<210> 2134
<211> 689
<212> DNA
<213> Homo sapiens
<400> 2134
                                                                        60
aatttttctt ttaatgcagt atgacacaga aaacatttgg aggatgttga aaagtaattg
                                                                       120
tttaaattgg caaagacaca tttcagtaag ggagtaaaca agagggaaac gtgttggggg
gaaaggtgtg gggaggaaac tctagaccag aggccctagg acttgaatat acaacttagt
                                                                       180
                                                                       240
cctgttgaaa attcagattc ctgggcctta aagtatgtta aataggtcag gggtggggcc
caggagttgt acttttaacg agcaccctcc tgtgattcat ttaacataaa aggtccttgg
                                                                       300
ctcacacttg gagaaacact gctgtagaaa ctcaaatacc tattttaaaa caaaggtaca
                                                                       360
ttttaatcat ttagtttaaa atgaaatcat tgcacaatac tgatgttaga ggttagaata
                                                                       420
aacatgtact taagttettg atattettgt cattteagtt acatgteagg gaatgtgatt
                                                                       480
                                                                       540
tgtgttttga cgtattcaaa tccttgtcat attcaaccat attcgtattc aaaatatata
atgattttga cccttgattg ttcgaattaa gactgtcatc ttttctgtgt gattaactct
                                                                       600
                                                                       660
tgtgttgata taaatatgcc tttggcttac taatgttcag taagaactaa tgactcttgg
                                                                       689
gaatgttaat agactctgtg agtcccttt
<210> 2135
<211> 58181
<212> DNA
<213> Homo sapiens
<400> 2135
                                                                        60
agtttgctgg aacattatca gatggcttag ggaagacgat ggacaatcgg catcagtcag
                                                                       120
agcqqqaqta catcaggtac catgcagcca caagtggtga acaccttgta gccggcatcc
                                                                       180
atggcctggc tcatggtaag tcatgggtga catcaggctc tgctgctgct ggtcctcaga
```



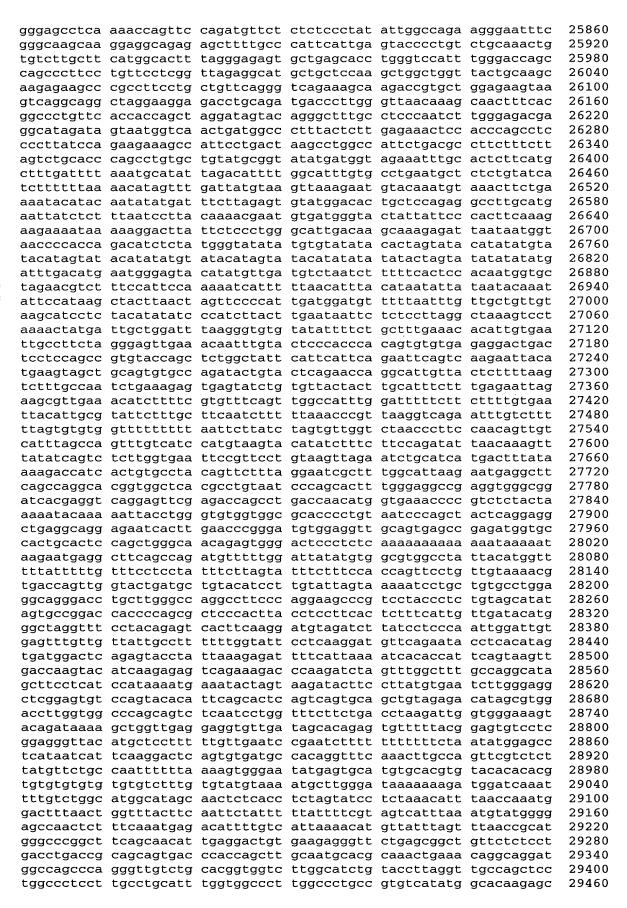
tagtctcctg ttgatttaat cctctatctg tatcctctcc tgatcgtccg taggctgccc 3900 3960 aagctctggg atcgaaaaat tggccactgt taacctctca gcttttctct gatttttttt ttttttttt tttgaactgg agcacacttt acttctgact aacatgtaac atatatcctc 4020 tgactctgga cttaatgggc aaatctgcag gatcctcttc tgtgagttgg cctgtctgtg 4080 4140 gcctctctgg cacagagatt aatagaatgg ccttaagtta tcattccata atcaaggggt 4200 ttggctttaa atgcttttgc ttttgtcctc gtcaggttac aacagccctt gtcttttca 4260 ctaggtatca ttggtggact gaccagtgtt ataacttcga cagtggaagg tgtgaaaaca 4320 gaagggggtg tcagcggttt catatctggc cttggaaaag ggcttgttgg cactgtaacc aagccagtgg caggcgccct ggattttgca tcagaaacag cccaggcggt gagagacaca 4380 4440 gccacactca gcggccccag gtcagtggtg tgggaagaat ggcttttgca gtttccagcc 4500 taggtctgct gcttctccta atccatactg atgtgtttaa ttgtgcactt tcttagttat 4560 agggttttta attcaaatac ttgtaactga aatttctgat ctgcctaata taaaaagatg 4620 aaaatgaggt acagaaacct ggcatgaatt ttttcagata aatatatata tagcatattt tatatatgct atatatttta tatatgtatg tatatatagc atattatata taagtatgta 4680 taactatatt atgttatttt tctccattag agaggtcaga attaggatta aactgttaga 4740 agcttcttct gttcaccaag ccaactggat ccccacatgc ctatgaagaa aactgtcaga 4800 ttgtagtctg gttcttactc ctacaccccg tgatatagtt ctagaatccc cactgttgtt 4860 gttcaccatg tgggtctgtt ccttcttaat tttccttccg cttgaaagta tcagcccaa 4920 ccccataaag aaaagtgcca cccccatcc ccccagcagg tcagcagttc tgctgtggga 4980 5040 ttgctgtctg gccttgatac cagctgagac tggaaatcag ggacagccca tatggttcca aaccccacag aacccaactg ctttaacgta gctgtttgct tgaatggcct attttagcct 5100 cccttttcca gagtgactaa ttggggattc ttatcaacaa agggtataat gaatgttaag 5160 ggcccagcca agctagactc gacttaagcc cagaaggatt ttgctgctgc ttggataata 5220 gattttccct gagtgaatta gtacgccctt ttagaatgcc tagggcctgg cccacatcca 5280 caccctatca ctccctcaaa taggatgtga agtgaaattg tccccaattg aagtgaatcc 5340 atttgtctgt caccaggaaa acttactgaa gacacattac tgcagtaggg gaaatgctcc 5400 gattgtggac tggggccatg cagtgtgctg tgccagaatg ccttccatct ggaagcagct 5460 gagtaaactc tgtatggttt actttagtta agttacattc tattctcaga tacaaaacta 5520 aaacaatcct tgagtatatt ttgaagcatt tatgaagttg tggggagggg caggcagtga 5580 ggaggetteg aaagtattte cagttagttt ttecatetet getegaagee caagaagtee 5640 acctccagta tttgttaaga taataagact taatgaagtg taaagctgaa gacgcctaag 5700 agttcccaaa gaagcatgtg tattcttaaa atgtcaaaat agccaaggga ttggttgatt 5760 aaaaagggtt caaggtatat gtgataaatt ttttaaagat gattttgtgc tgtgaagttt 5820 taataatgtt gacgagaaag aaacggcttg aattttatac attgtcagct tgcaagtctt 5880 catgggggtt tttcattctt tttaggagca caagtaatgt agccacagtc actgcagaaa 5940 6000 gaatgtcttt gagagggaca ttcttgtcat ttttattagt tgttcaacat tgccacagaa gtttgatttt ctgtcagcca gtacatagct gccatttatt cattgcctgt cagtaaatag 6060 tgattgaaaa tttcctatga actcagggtt gggaatagca gaaaccaaaa ctgtctctgg 6120 tctcaaagag cttataatca agcagggcag caaacataaa aaattatata aacacttatt 6180 tgctgaaatt gtgacaaatg acatcgagga cacttagagg gtgccgtgag actatgatca 6240 gagaaggtga tggggagaag gagggtggct aacctagtga tcaggggagt tgagacaggc 6300 ttttctagga aagtaatctt tgaggtgaag cctggagtat gaagtaggag ttggccaggt 6360 gaagagaaga gagaatcacc ttccaggtaa aagggaacta ctgtgtgtgc aacagcaaaa 6420 6480 ggaaggaact tatctatgtg ccaggcattg tctttgtgcc tccacgtgtg gaatcccatt 6540 taatcttcat agttgattta caaatgagga caagacagtc cagagaagtc atggagcttg tccacagcca cacagctggt gggaaatggt agacctagac ttagacccag cctatgtctt 6600 gaccetgtge ceageaceae tgeattgeae cetgetgeet gggtetgega ggagggget 6660 cattggattt ctcttgtacg tgtttcagag tcagttagtg tcaagatatg gcattccaca 6720 6780 tagtttcttc cctgctgact caagatttac tttactatta cctgcacact gacatgattc 6840 aggtettgae caacactgea tttttgtetg tetgttteet etggeetgee acettageet 6900 tatctggacc tcagcagcag agaccatgcc ctcatgaagg cactggggag ccgttcacag tcagcactgg ccactcctca tctcagccca atgaagtttt acatttccat gtagatgagg 6960 cactcgggat atagaaaagt tgtgcagctt gactcaaagc agacagtaat tgggtagcct 7020 7080 7140 acaacaacaa caaagtttaa ctgcaagttt catgagacag cgatctgcct aaccattcac 7200 tcctcctaga agcaaaagct accgtgatca ttgaggcaca gccggtcttc atatatcctc 7260 aaaggagggg gattagcttc cacatccctt ctctattcct ggaggtgcca gtagtgggag agtcatggca gaagttacca gaggcaagtg gggcagaggc aagtagggta tatgtttgga 7320 7380 tcagtggatc agtgtccttt attgtgcaga aaaagctaaa attacagatt cttctgaagg 7440 gatacatagc agccgtttca ccaatgtccc tcagtccatt tgtccaggtc cagaagtatt 7500 catgaggagc tatgcgttag aagagagcac ttgggctggg catggtggct cacacctgta

atccagcatt ttgggaggcc aaggtgggag gattgcttga gcccaggagt ttgagaccag 7560 7620 gggtggtgtg cacctctggt ccttgctact tgggaggctg aggtgggaag attgctgaag 7680 cctggaaggt tgaggctgca gtgagctatg attgtgcccc tgcactccag cctgggcaac 7740 agtgagaccc tgtcaaacaa ggaaagagaa cacttgatct ggaaaacaac aggccagagt 7800 cccagccacc ttacttatta gctttgggcc ctgggtcaag tcaagacatc tatgtaagac 7860 tcagttttag tttttcatc tataaagtgg ggataaattt atctctctgt ttattctgct 7920 tctcaggggt ttgaagccca accagagtta ttttaatgtg gaagctataa agaactataa 7980 aaatgctggg tgatattatt ttaaagtcct attaaaggag cgcagagatc cttgcaggtg 8040 gagaaatgtt tcagtgccag tttgttctga tgacactgta tctcttagga acatactggc 8100 tctaacacta tcaccgaggg ataaatcacc ctggtttctt ggaagtgagt tataaccatc 8160 tccaaccatc ccggttgatt gaacaggatc caggggtgtt actcagggtt tttccccact 8220 gtttagacaa cagggactaa caaatgattt gaagggatta gaagtgagat tctgaccgag 8280 ggttgacctg agcccaggga ccaagccagg aatagaaccc aagagtccaa gagttctgcc 8340 tctgagcctg caattggaat gagactttct gcttcctttg taatatttca tccaagtaaa 8400 ggcttagatc ttagcatcta tgttttaaaa gacccaaatt ttaagcagat gataggaaag 8460 taagccataa aactgtgaaa gagtactcct tccagtaatc catctgaaaa gtggccttac 8520 aggaaacatt ggctcttttt tgtgtttatt tgaacatgat tttatttata gggaacccc 8580 cctccttatg ttcttttaga ttaaaatact tccaagttcc tctccttgtt ggagtqcqct 8640 ggcattccaa gcgacagcca cctaactttc ctctgaaatt tccaggcaac ccaatagttc 8700 tcaggaaggc aggtgggggt ggggagagaa gagggcggag gactgcagag cctttqqcct 8760 caacatgagt gttgtggacc aatatccccc actgcatttg ttcactgtac aagtatgtgt 8820 ggtttggaac tgaaataaga aaccttttcc aaggcaacgt tctgctggct caggttgcat 8880 cttctggcct acgtgtattg ggccacactt tgtctgttcc caagtaaagt ttatgaaaat 8940 ggcacagatg cagccacact tgaggtgcca ctgaagctat gtgaagagcc tgctaccctt 9000 caaacagacc aggcccaagc aaggtgccaa gccatgtgag agtgcccagt ccactgtgta 9060 aatgtgacgg cctttgatgg tagtgtttga aaagatactt agtagaaagt tgcagagacc 9120 cgggagcagc catttcacaa aagaaggcaa aaataccttt gagaagaaag gaatgtctgc 9180 ctctgcacta tgtatttgct tgtttgtttc tccaaatacc atctgttgca gactggggtg 9240 catgacattt taggtaagta gcagatgaag atttatgaag ctgggccctg aggtttcctc 9300 taaaatattt cttcaccttt taagtcaaga cccaaaagtg gggagagaag taggagttgg 9360 cagaacttga aatatttaaa ctaatttagc aaagctcagg agtgttggag cttatctcgt 9420 tatttaagtt agataaggag gaaggggaat ttgaaggata atgatagatc agtgtttaag 9480 aatacagcca tcaggactga taatgttctg gaatcccggg accctcggat tgtgcacgta 9540 gatgtaaatt ccatttgctc tgagaacttt tgaaaaagaa agtttttggt tgatttcaca 9600 gaaaagattt atggtgggca tatttgactt tttcagtaaa aatagcccca aaacaccacc 9660 caaaatctgt taagacactt ctcgtgaatg acctcttaga tgtgaaatgg aaatgggttt 9720 tcttaaggaa aggccccttt tgttaacaat gtttgcatgt tacttatgac tctccaggat 9780 aaaaggacta agactetttt gggteaceag ageetgaatg eagteaggtt ggaeaggtea 9840 gcaaaaagtc tgcaaagagg ccgggtgtgg tggctcacgc ctgtaatccc agcactttgg 9900 gaggccgagg tgggcggatc acgaggtcaa gagatcgaga ccattctggc caacatgtcg 9960 aaaccetgte tetaetaaaa gtacaaaaat tagetgggeg tggtggtgeg egeetgtaet 10020 cccagctact tgggaggctg aggcaggaga attgcttgaa cccgggaggc ggaggttgca 10080 gtgagccgag attgcgccac tgcactccag cctggcgaca gagcgagact ccatctaaaa 10140 aaaaaaaaa aatagtctgc aaagagaact taggaaatgc ttccattaac tttttcatcc 10200 tagctgggta atactgcttt taattactct gctctgagag cagccatttc ttatacttgg 10260 tattacacat aggacatcaa acagaattgg cttgaattga gcctttaggg aacttccaaa 10320 ggtaaagatt gagtaaagat tcaaatgttt attaggatat accagtgttc attttttcc 10380 cactaatatt ccattcaagg caggagacta ggctgatatc ccatgtatct agagtggatc 10440 aagtccaata tttctttcag agttcctgtt ccttaaaact gtaaatgggt tttatatttt 10500 attccatgtt tggcttaata agaaaatatt tttaattgct acctggtaaa attaacattt 10560 cagaaagatc tgatatgtta tcctgtggct cctgcctcat acttatctag gaagttccag 10620 cacgctcctt ccagatgagt ccggtacgct gtagtagcat ccatatagag gcatgtatat 10680 ggtagaggtg aaaagctgga acttgtacct gtttgaccct aaggctctgg ttctaatctt 10740 tgggcatatc tgtcttttgg cttggtgtaa catctgctgc ttgggacagc cattgtgtta 10800 gttaacatgt cagtttcatc acgaaaaaagg cattacattt cagtgaaact gaaaaattat 10860 tgctatatcc agctgaaggg aagggactgt caaatatctc ctctgttgtc caaacatggc 10920 acagtagata tagtgacagt ccctttatct tctactcacc cttgcgtata tatttgtgag 10980 gtgagagcca tatattetea etteetgate ttgeeaaace aggteettee agagaatget 11040 tgaaggtaga tgggtcattt tctcattcct ccctctacgt gagcaacccc agaagaacac 11100 taagacctgt gttgatgaca ttggatgtct cacttggctc tgaaattaag ctgatgaaat

tataggatcg gatattttat tttattttt ttcaagacag agtcttgctc tgtcgcccag gctggaatgc agtggcacaa cctcggctca ctgcatcctc cacctcccgg gttcaagcag 11340 ttctcctgcc tcagcctcca aagtagctgg gatggcaggc gcacgccacc tcgcccagct 11400 aattettata titttagtag agatggggtt teaceatgtt ggeeaggeeg gtetegaact 11460 cctgacctca tgatctgccg accttggcct ttcaaagtgt tgggattaca ggcgtgagcc 11520 accacaccca gtcaggatca gatattttaa agaagcatct taacagtcct tcatgcctta 11580 taagttaaaa ttcctctcac aggaacgtaa gcagagaaat cttattttct gagacaggct tcttccctct cgctgaactc taaatactgt attccccttt cactcaaagg ccccagacga 11640 11700 tgccattctc attataacat aacttatgga aagctcagat ctattgttgg aaaaaatgca aagtgtgtgt gttcatgcac acacgtgttt gagaaaagcc tttccatttc tgaaatccca 11760 11820 agagtcattt ttatgcaaga ttatctgtta ggaaaaaacc cacttttttg gtcatggtac 11880 attataatca tttctagaaa ggagagcgtc taatttttgc catttttggc atgcagagat 11940 atttacatct gaatcaacat ctcttcaaag tccagtcctt gcatctcaac cagcaggtcc 12000 ttgtgcaaag aaaatgaatg ggaagtgtga tttggggtta ttccatttac tttctgattt 12060 ggggttattc catttaaaaa tgaaataatg ttgccattat acatctgtag tcccttctgt 12120 gttcagtgaa tttgttttta aaactctaac gtgacaccta atattacata cataagataa 12180 gacatttgag atttttggtt tgaacttcaa gaaaaaataa aacggtgtct atttcttttt 12240 gagaaaaaat ttgtattttg tgcattagag aaggttgaag agccatttgt tatttgtgga 12300 actcctctgt aaaggcattg gatttactta tttttagatt ttcatgacta tcccatgcct 12360 catgtttttc ccttacagaa tcatccacct ttgcccaaga taaaattgaa atctttaaca 12420 12480 agaggaccca ggtttgagtt cagctcccct gctcccagag agctttagac tgtaagataa ttctgagata cacacaggac atttggacta gcagggactt aaagactcac tgttgtatta 12540 cagattatgg ctcggaagca ctgagggaag gaaagatagg tgtgggtgtt ataattcacc 12600 12660 cqtqqttttc ttqccctgat gtatttatct ggtactcttt tgccagtctc cttctcaaag 12720 acattttctt gctaaatttc ttactaactt gtcaaatgga gggaaaataa gattgaatta 12780 gtaaaacatt cttatcacaa tatactctaa aagaggctgg gcgcggtggc tcacgcctgt 12840 aatcccaaca ctttgggagg ctggggcggg tagatcattt gagctcacaa gctcgagacc agcctgggca acatagtgaa accctgtctc tataaaaaata tacaaaaatt acccgggtat 12900 ggtggcacgc gcctgtggtc ccagctactc cagaggttga ggcaagaaaa tcgcttgagc 12960 ccaggaggtc aaggctgcag tgagctgaga ttgcaccact gcactccagc ctgggtgatg 13020 ggagtgaaac cctgtctcaa agaaaaaaaa aaaaacaaaa aacttttgtt atattgggct 13080 tatataattc aaattaataa tgttacttat ctatatcctt agtggattta ctttaataca 13140 ttgaggaaac cgctttctga ttagcagaga gaatttgtac atatgggttc ttttagaaca 13200 gagggtetea aaataeggte tagggaeeee etgeggaaee eeagateeat aacetaaaae 13260 ctatttgtat atattcatgt acttatatat gaatttatag atataacaat ttttataata 13320 13380 gtattctcta atgagtatac agtggagttt tccagaagct acacaatgta tgatattgta acagattgac tgtagaagca gataggtgaa tacagctgtt ttccagttag caagacttaa 13440 13500 qaqatttaca aaaatgtgca ggtgccactc tcctcacctt ctgtgactct gcatacatgc 13560 caccagccaa caaacgtacc tggttaattt ttttgacaag ctgctctagt tgaaaataca 13620 gtgattgata atccatcatc ttgctgataa gtagcacata tcggcaatga tgggctaatt 13680 cggactaaac cgtaggagcc gctgtaatgc aatgcttccc tttggcttcc tgccaacagt 13740 tgtcagccct cctggtttgc tcctgacttt tactgggttt ctagaagtaa caattggaaa 13800 tattttatca catatcagaa agacctctta caataattta cctaatttag ttcttcacct taacctacca tcccaataaa ttttaatttc ggcagggtag taagtgtaga gcagattact 13860 tcaaagtgca gaatcttgtc caaaggctgc ttggttgtgt ttgcactgcc ctgactcttg 13920 caggtactcg agaaggtgta tctgtttcag aattcacttg ccaaaacctc aactttctcc 13980 14040 cctagcaaag ttgctggagt aggataaacc cacagtattt ggataagctc ctttgaactc 14100 cttgtagaaa gcagttttta tgaggcagtt gttctgtgtt aacaccagag acaattccta gcagatttcc ccaaacatac ttcaaacatc gataatggca ggggtgaccc aaactgtatc 14160 ataaaatccc agggactgca ggagacttca aaggggagac agagcaaaac ctcacttctc 14220 14280 gttatgagga gtatgggtca caggaatcct ggctagaatc catggtaacc tcgcggagta atgccaggat ggacagaggc cagggctcat cagttcccta gactttacta attgacccca 14340 14400 gcagcacagt tagagtggta ataactggca cctgcccacc tcctgaggtg ttagaggcca aattaccaca tgtgaagtgc ttttctatcc tttagtgaga agatgcaaac cttgaagtgt 14460 gtttctattt ttgtttgaac tatcgagggc ccagttaatt cagttgagcc aattctgacc 14520 14580 ttgggatatt cagatccatc acttagtatg tacaggcaaa ttgacagtag aaatttattg 14640 agtcttgaac tcctactata tttcaggcat ttaataagta ttaaatactg ggaatattta aataattgag gacaaactgc tctgaagaat caccaagctg tttggtttgt gtgttaatat 14700 14760 tcttaagcca ctcttacgtg ttcattaaag caagtttccc tatagttttc ttgaagaact cattttttag tgatttgact tactctttat tcttgaaaac aacaaaattg catttgtgca 14820 tatggtatgt gttgaggggg gtaattacag gcattttttc cctcattacc gggtccgtta 14940 cagctccttg aaaacaaata gttatagttt tactaattgt ttataaaatt agctaatgat 15000 cctttgattt tttagttttt ttatacctta gctgtattta ataaatattt agtatcttct gtgcaattaa taagaacaat gggggccagg catggtggct caagcctgta atcccaggac 15060 tttgggaggc tgaagtgggc agatcacctg aggccagagt tcaagactag cctggccaac 15120 atgatgaaat cctgtctcca ctaaaaatac agaaatcagc tgggcatagt ggcacacgcc 15180 tgtagtccca gctactcagg aggctgagac atgagaatcg cttgaaccta ggaggcagag 15240 15300 gttgcagtga gccgaaatca tgccactgca ctccagcctg ggtgacagag taagactctg tctcaaaaaa agaagaagaa cagtgtttaa aaacctgtta tttttacctg aattattttg 15360 ctacgacaaa tttatctttc aaattagatt ttatcaaagt agatatgtat tcactttttt 15420 aagttgaagt ctttctaaat gtctaaaacc aaaacacagt aatctcctgc cctacctttc 15480 cctgattcct gctccctcag aggcaatcac tttcaacact ttgggctgtt tcttcaatgt 15540 ggaggtattt acctttatat ttcataaata aaccaactgc tatttcttga catcatttga 15600 cttcatgttg ttatacatac atgtttcctt tccccatttt tcagtacagt tatatgatcc 15660 tttttgaata acttagtatt ccatttttac gttattatga ctgtgtaaat agtattccca 15720 gtgaagcccc ccacccaggt cactttgatg atgtttcctt tttaaatgtt gtgctttgtt 15780 tttttctcct tggagttagt aactgctctt tcagtattgt ctgctttgtt ttctatatgc 15840 acattcgtaa tttattctca aatgcttatt tagtttccac atttttttaa ccctgggcct 15900 agtaactcgt ttttctttaa aaaagaaaaa aaaaatttta tgttcctatt gctaatttat 15960 ccacaaacac tcttctgtat gtgtacaaat gcactgagta atttattggt ttctaattaa 16020 attctccctc ttgatgtcct ctgctcccat ctgactggtt gttgtctagc tatttttgtc 16080 tctaagctat ttttctatag tagtactata gcagtactat tctgagtttc tttcttccat 16140 ttatttgttt tggtcttttt ctttcatgaa tagagacagt ccccagagaa tctggtgatt 16200 16260 cttgactatc tgttctactc ctctttaaag atgaggcact aaaaagccaa ttgggagctc ttggtttgag gctgaggggg ccttactgtg gaatgatcaa gtggggacct gctgactctg 16320 ggctcctgtt gagaggagca aaactgaatg gggatgagag aggggacctg aagctctaac 16380 tgcttcccat gcagcctttt aaccaatctt cctgttttca cctcactcca ggcctatctg 16440 tttctccttt atgctccagg ccttcagagc tacttgctgc ctccatcttt ctgaaatgca 16500 gtggaggcca ccatcctaat tagctttctg ctttgtggct tccactccct caaggcttac 16560 atttcagcgc cacgtgtcca tctgcttttc agcttctaaa atattgttga caccttctct 16620 ttatcctttt ggatttgtgc catttgtatc cctttgcttt ccctttagag gggtctctgg 16680 actagatctg tcatgtttaa tcagaagtcc tataatttag acttttcact aatttgtgtt 16740 tectttettg gtgttettte ecetttaece ceaactagtg getetgaatt agtgtggttt 16800 tatgaaaccc atatccattc agccatggtt ctatgtatta tctcatttag gcatcacagc 16860 agcttttgca cagcatctgc tcaggcagtc tgtggctctt ctttccccga aagattgaga 16920 atacatctgg tgagaagccg ttgccagtcc cagcccctgc tttgagtctg gtattggtct 16980 ttaatctctc attctgtgtg ttgtaaagaa acaggttgtg gaaggctctt gtcagatccc 17040 aggaacatga aagaaatagc acaccctacg gtagtgacat ggccctgtca ccacccctca 17100 17160 ttgaaccata aaagctattc agaggggcca gcagctgggg agcgactgta cttagatcct gggtgctgat gggtgttttg tagtttccaa gggaagttgc tgaaagtttt cttatcttga 17220 cactccaagg gcaagaggtc tttcttcaaa gagaagcgct tgtttcagaa aaagatgtgg 17280 aaaggacgta aaatcacagg ttcttcccca gttctgaaaa agaaatagga aggggcaacg 17340 tggcagtcag tgtgaaaaga aaccacgcat ttgcaggaag caagaagggg ttccgcagca 17400 ctggctgctt ccggcatctg cagtgcgagg gtaaacaggc ctactgggga gtcggttggc 17460 cctgggtttg agtcattggg ctgctgcttg gctgtgacct ggaacaagtt tttcccctct 17520 taatctctct gagatgagat tcctttgagt catatgccta cctcggtggg tggttacgtg 17580 17640 gattaaatta tatcatgtat ataaagcact cagcctggca tgtggcatgc aggtagggct caagaaatgg tgtcagtgtg aatattctcc cctgaatgtt ggaatgttgt gtgaaggtga 17700 17760 aacagggatt gtgtccctag ctcttactta aattcaaccc tgtccccgaa ttcttgctga 17820 ccacctgcta gagtgtgagg actaggagtt catgtgcttg gctgggcttt tgtccttccc 17880 attctctttc ttcacacaaa atgaacagtt gaactcaggc caccaaacct ggttgagttg 17940 ctgggtggag ggactctcct gggctctgag cctttgtgtg tgggaaccgc actggaaaag 18000 gtgtgcagag gccacgaact tgctctgaac ccacttgtga agagcaggtg accccaaact attgttagtg tctgctgtaa atgatatgcc tctgggttcg agcagagttc agccaaaagc 18060 cccacatgac atggaaatct gtcctggagc caggtttgtc gggtaaaagt tatgtagcaa 18120 atgtctccaa acattggcat ctgttgtctg ccgagactag gacaaccgag aatgatggag 18180 18240 tgcttaagga aattaggatg gggcatgcga ccctgtaaca gctgataaac tgtttcaggc 18300 caccgtggct catccagctc ttttgataaa cagctttaaa agcattacgt ggtttggaaa 18360 gcattcttca aaaatggtta tattttccag acgcatgaca gtccactgtt cagtattatt 18420 taagggtttt aaattgtaga atcagattcc ttttcagtgg ggctcttgga actgtcgagg gctgatctgt ctgactccca ccaggacaat ctcacaacaa tattattatg taggtcgggg 18480



gctgtccttt tgcccttccc ctgaactctt ttcacttcag tcatgagcaa acagtcagtg cctgaactaa caaccctgta gtcctccgaa gcacggctgg cttacagtac cgaacaaagg 22260 22320 gagggagtgc cgcgtgggcc ggcccaggcc gaggaatgcg gcttcagggt tctgctccat aaatttaacc agcacgacga aaaggagata atatgagcct tcgtgatgat ctgaaagggg 22380 22440 gaggttctgt gtcccattga ttgcggtctg gcccaatgcc aggcccaagc ctgaccgaca 22500 gttgaaccat atcattaagg cgtgtaatac agctcgagtc ttgtactgcc gccaatgagt 22560 gcatatccac agggcaaaag tttataaaga gtcgaggctg tcctgtttaa ccctctcaca ctgcatgtaa tagaaccagc tgccattcag aacttgccca tctgaggtca taaaggaaag 22620 22680 cctgcacgtt tcttttcttc aaacagcttt tcaggactgg ggagaggaag aaacgctgtc 22740 tagagagggt caaggcacgg tgatgtttct ctctggagaa gcaaagcagt ctgcctccct 22800 cccccggcc agaaacggga caccttagtg ctttcttcag agtagctctc tgtttgtggt ataatgttgc tggaggaaac agggctgaca ccacaggaaa cctgcctgtc tccaaggagg 22860 ccgcatcggt ggcagaggtg ggtcagatgc cggccgtgga gtgctcttgt caagcttggg 22920 atgatgccgt tttccttccc catcacctcg aaagctgtta atagccttgc tttctggcct 22980 tccacagcta cgcccaggtg ctaaaacaga gcaggtggaa ggccgcccca cggagtggcc 23040 tgtgagecca gagtteteae tgteegagge eggtggeece atgggaaete tgteeattea 23100 atagggaggg catgtagaaa taggcacatt gtcacagcaa ggcctggagt ggcctgggtt 23160 cttacagtgg gcactgcatt gaggaaatgg gcagacaaac aaggatttag cataagtata 23220 gtcagaaaga aagggctgcc tgtgttcaaa ggacaaaagg aagaaagtgg gcgaaggggt 23280 agtttagtcc tgtccatcag ccagtcacgt tctttggcca aactcgggac ctgcctgtgc 23340 tttgtccatg gtgtccagga agaaatctgt gtctgtcact tccagattgc tgcttgtctg 23400 caatggacaa tgcctcttag gcagacacct gctcgggatg acagtgctgc agaaattgat 23460 ccaaaacatt gactagcttg catggtatcg ctgtcattag tattcagtct tcacaaccac 23520 cctatgaggt gggtgctata ctttccccat tgtacagatg ggaaagttga ggcacacagg 23580 ggatacgtaa cttgtctaag atctcagagg tagtaaggaa gggtaccaga atgtggaccc 23640 tggccaactg aacacagagt acatgctcct aatctctgtg ctgcttctgg gccatctctc 23700 ggtccctcac atcgaaagac ctcatgattt caatccaaag catctgacca agtgttaggt 23760 ctacttcctt tcgattcttg gatatgaagg gtaggagctt aatatctgcc tatagcccag 23820 aagatttgtg caaagaccct ggttcacttg gagaggaggt actataaaat ttggacccca 23880 caatgcgaat gaagggtatg tattgaattc cctcagccca ccagcttaac acagagacag 23940 tgtgagggat atactatagc tgggaagctt ggaagggctc atgttcaagg gcctctttgg 24000 gccaaacagc agtgggcctg agcatggaga gaccctggcc ttttagtgcc agtgcctaga 24060 24120 ccccattcca ctcctgaaat aatgaactac tgcagccttc caagttcaca gtgtgccagt 24180 ttgtcacaga atagcagtga cacttctctg ctgcaaccca tctttgctct gccatgctgc 24240 caagaccatc ttcaccaggc ggtaacctgg gaactccagc tggtacacag tacaagaagc 24300 ctccgcagta gactgtccca ggtgcatgtg ctcagtatgt catagccatc tccttttgga 24360 ggccagggag agcttctgtt tgggtgccac ggatcctgga cagaagcttt ctagaggtag 24420 gagaagagac taaatggctg gccaacccag agattgttgg attgtgttat gattccatgg 24480 tcaaagtgct ttaaaaacct agaaattggc tctggtagtg agtcccagga tggagctaac 24540 ttacgatctg gactccatta catgattgct aatcctgaag ttcagcaaac gttggtactg 24600 gctgactttt aatggagtac ctgtttgagg gttctcctca tcatgtattt aaggttaaat 24660 tgtataaagg aattctgctg ctcttttgaa attttctggt tctgtttaac catacctaaa 24720 aatgccatga ggtagccaga tgattgacta actgggattt atggaaattc ttatctgcaa 24780 aaatctcaag acaaagaggg cactaactag aaggttccca gtgctttatg taacatgcag 24840 aaggaagtet ggteteaget tettggatet gageaateet ttggaaaggg ageaatgaag 24900 agcagtaact gaagactcat ttcctgcctt ctgtgtgact cactctcctt tgtcaacttc 24960 aagtttgccc taggcctgct tgcttctctc caccccaagg aacttggtct ttggaagaca 25020 caggcacctg ccctctctgt ctgccttttg cccccaggtc cagagggaga aacaaaccct 25080 cagttggagg aaagtctaga gcacaggctt tgtgttgctc agagaagcat gacaggaagt 25140 ggtgctgttg cctctgcatt ggccgactcc tggctgcacc tgcttttccc agaggcacgg 25200 ggaggcccag gcaggggccc agggcctgct gctgatcagt ttgtcctgct tgcaagtctg 25260 catcccagta cccaacgggg ccaagtagaa aaggcacata gtgtagtgtg agccgtagct 25320 25380 cctctttccc cactggcttc caccaagttc taacacattt tatatatatc gatttccagg 25440 cttgtagagg caagacctac agtccaggag ttcaaatgga ttcagtgttg ttggttcttg 25500 25560 tttcctagaa ggacaagtgc tctgaaggtt tggtgtcaac tctgacccaa ggggtgtatc 25620 tgatttttat gaaggcacag aaatgcacct gaggtgaccc caagtccttc tcttttattt tttgatttcc caccacctgg atcattaatt ctgctttcaa gggggatggg gaaaggagaa 25680 catttcaaag caaagttgat ttggtctctg aaccagcttg tcttctaggc tgtagttcac 25740 cctgatgaga atcagaaagg acagtctgta aaccccttca ctctagtgac tctgcagctg 25800



ccttctggcc cgcatcaccc tgtgtactga ttaggcagga atcagcaaat ccgttgagtg catgtttaat gtgacacaga tgtgggacat actacagatc tttctgcttt acaaattttc 29580 agetttttgc atttcatcag tgttgcttat tatttacaga atgtaacttg agacatcaga 29640 29700 acagattgta atttttaaaa aggttgttgg gggggtgggc ccgcagggga tctggggagaa 29760 aaaatccagt agtgtggaat gttgtttgct gtccagacca aacaaaccag tttgccaagg gttgatggac tatgacaatc agtccaattc atgttaacac tgggggcact taattaaaag gcagcttgac ctccttatca ccaaataaag aataatcttt tgttaccagg ttgaccgtcg 29880 29940 cagcaccagg cagaaatgta ccccttgtag aggcactgaa gggtaccacc aagctgccag 30000 ctcgtgtcct gcctccttcc tgtccacaga gaaaggcacc attgaaccca gtccccactc 30060 agacatgtgg atattettge etcatgeetg etgtggettt acaeccagge getatggeaa 30120 gaggcggaaa aaagaaatct cttcctttgc ccaaaaatcc aagatactct tgagggcatt 30180 ggaatgatga gccaggccag tttgacacaa gttcaaggag aaggtaccat ctcttgcttc 30240 tagaggggca catctggcta gaggtggccc tggcttctga gaaagctcag ccataggtta catttaaggg caaacaatga aaagcaccag ctggtcggga ggaagatgag gaggagtggg 30300 tgattggttg cttctttcct gtgtctagtt ctaaagaact taaaacttgg gtccaaaata 30360 atgagagccg tgttgtaaaa atcatttgaa gagagttctc ctggggaatg tgagctagtg 30420 ccgtgacctg atcccttggt cagatggttc tgagctgttt aagtgctgag tgtcaactgt 30480. ctacagggag ccaggcccct gaggagcggc cagggttcca agccccactg ttcttttcct 30540 tcctggaaaa gtgcagacgg tgcacgttcc ccggaggcca ccaggcagct ctccagttgc 30600 30660 cctctgggtg aacgtgaccc aggtcggtaa ctttctagtg tccccccac gttggaatga tcagcattcc tgtactccag gggttcttga gttcttgagt tgttaccaac gccctgcctt 30720 30780 tctctggctc agattcagag gaggagttcc actgcggact gccgcttctt caccctctgg gcttcggaag cagcacctct ggctcccctg cacccagtcc tcagtcttgt ggccctggtc tgccccttta tcacatgtct tgagcaccct ctcagcacac agcaccgttc tgagcgctga 30900 ggtgcgacca tgcatagaag agacaagaat ccctggttcc gcatggcttc cctcaacacc 30960 tacgtttcca ggccatggct tgggttcaga agaatcaccc tccctggaag agatgagtga 31020 ctggaaggag agcatgtcac tggctccct gagaccttc caagagcctc agtttctccc 31080 tctaccacct gaagtctaac tgcagggcct gaaacagatt ctctttaaaa acccatgagt 31140 gtggtgactg cataggtttt cattetectg agttettaat tteegtgtee ctageaettt 31200 ttgaagcatc tgctcctgtt gcccctttct tttcctcctc accctcctcc atagtctctg 31260 tttgatagta gaaggagatt taaaacctcc aggctgagtg aacaggcggt cttgaaaaag 31320 caaacaaatc gggtcaggca cggtggctca cgcctgtaat ccccagcact ttgggaggcc 31380 gaggtgggcg gatcacaagg tcaggagttc gagaccagcc tggccaatat ggtgaaaccc 31440 cgtctctact aaaaatacaa aaaaattagc cgggcatggt gccgtatacc tgtaatccca 31500 gctacttggg aggctgaggc aggagaattg cttgaaccca ggaggtggag gttgcagtga 31560 gccgagatca caccactaca ctgcagcctg ggcgacagag cgagattcca tctcaaaaaa 31620 aaaaaaaaag caaacaaatc acaaagcagg tcccctctgg gggctggagc atcctcatat 31680 ctgcttggct ttggtcactg aaagaggccc tgggggaggg ggcttcaggg cttcccaggg 31740 gagaggtgac agttaggaca cacgcctccc ccacttcagt caaggcagct tcattgtcag 31800 cggttgtacg tactaagatt gtgttacaaa cttcatttgc agaaagtgtt ttacccctga 31860 aatttttttt tgaaagcgcc tgctgtgagt tttattaatg gcacttttct aaaacttcat 31920 taatttcaat tatgagaatt tgatatctgg tgtaattcat tgagctgcta gtttgatttg ctctagctcg ttttaaaaag ctctgtcagg caacaggata tggatgggag tgggtcaggt 32040 gagtgaaaac gttttaagca ctcctttctt cagaaaacac ctctgtaccc acatggggtg tgctcctcag gagtcattca gacaggtcca ggagaacttg tcccccaggg tgctccgtcc 32160 agatacaatt ttaaatactg cactttcgca ttttggtatt ttcaatggac ttgacaccca 32220 ataattetga ataaaggtag gaaagaggga gatgattaae ttttacaagt acetactatg 32280 tgccaggcac tatgctacac attcttcata ttttatctca acattatcaa ccaagtaggt 32340 attaagttct cacctattga tgaggaatct gaggctaaga acaatctagt aacttcttca 32400 gtgtcaccca gctaataagt gactgggatt tcagcctgtg tttgtctttt tccagtctat 32460 gtttgttcct ttatactact ttgttcttaa atttcatctc ttctcttaaa agaggtcaac 32520 32580 tttgggagaa ggtagataat atataaacat tgaaagaaaa agattatata atcatttgcc 32640 agaaataaat ctgaaaatat tgggctggac acggtggccc acacctgcaa tcccagcact 32700 32760 gaaaatgtat ggtttattaa tgtaatcagc ttgttattat tagcatgcgt acttaatagc 32820 cacaaaataa agcttaccag agatggtgta tttcggtcct tgtgaaatat cttgggattg 32880 gcattagagg tgacaggtta gcaaggaatt tgataatggc ttgagagatt ccaataagca 32940 ctacactctc tgactcagaa tgttctactt agaacacaaa gaaagcttac aattgtaaag 33000 cgccttgttc ttccatgatg ttgaaagttg caaaccactt tataggttgt ctactatttt gtaaaagcaa agcaaaccca gaatgcatgc aaaaattatg gcctttaaag aaatccaagc 33060 cttttaggct ccattcttac tataacatga tctattttct tggaattctt tataaagtaa 33120

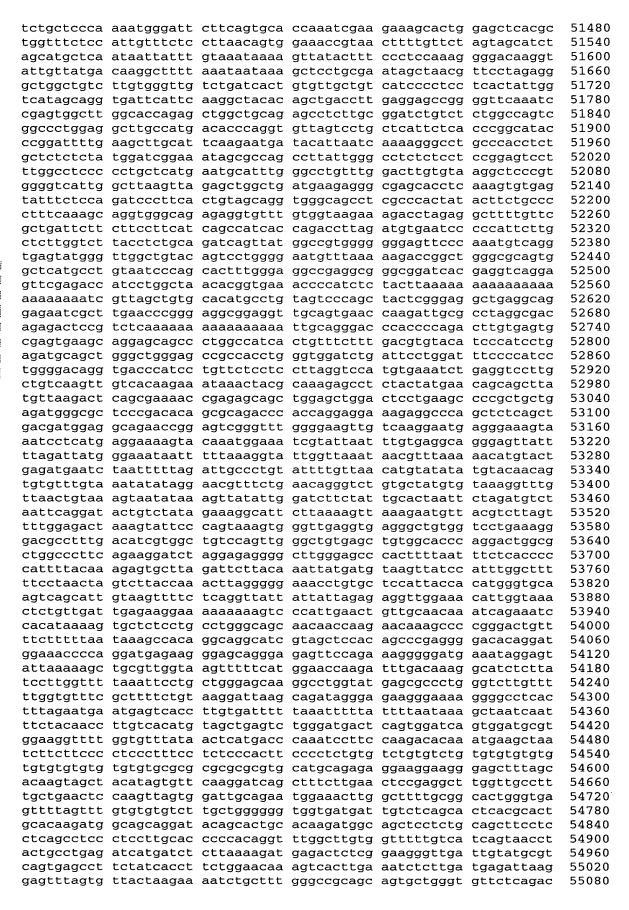
ctctgcccct ccccacccag ccattaacag gtagtctcgc ccctgaggca gttgactaag aaaaaaaatc tggagtattt ttgtcttaga gtttaaatcc caataggtgt atctgttggc 33240 33300 attagtccta ccagctgtca cagttgcagt gtcatggggt ccccaaaaca tgtgttaaat 33360 tatgggaagc cttgacccct ataaacaagt caggtgtgaa tcccactgat gggagaaaac 33420 ccagcccagg aaatgtcatc cctgctgctg gatgtcaaat tgctaaaaac ttaacaatat 33480 caatataatt tctaatgatt tcttgaatca acatctttct tacattttca atggcaatag 33540 tacaacatqq qattttatqt qtgttatgca tgtatgactt gagaactcta gggagaggta agtagaatgt taacaagaaa gcaaagggga aaggaaaata cttcagtttg aagcagtgag 33600 cctccccagt aggaaaacta agtacaagag gttggatgtt acaccctagc ccatcttaga 33660 33720 tcccagacac ctcaactagg gttcctcgtg tgcacccatg gcactctaaa taatacacta ataaaaagaa taggtagcat tttatcgagt gcctattatg tgctagactc tgttctaagc 33780 actgtacatg tattgactta tctactcctc acaacaaccc atcattaccc ccactttata 33840 33900 gatgagaaaa ccatcgctcc aagaagtcac ataatttgcc tgtggttaca gttcgtaagt 33960 ggtggagctg ggattcaaac ccactgggca ggctggctcc agagccgatc ctctcagcca ttatattatg ctgcctactc tagtgctccc tgtctctcct actgcttccc tgctgtgttc 34020 ttgttgccat ttctgttcat ctcctccact gaattgctgt aagctccctg gatacttaat 34080 tcatcccagt cttcttcagg acctagtgct ggcctctgca tatgatagtt tgggaaaggt 34140 tggttgaata ggggactgga ggaggcaggc acaaaccatt tgcagggctc taagtaggct 34200 cgtttttctg gctaccctag tttggatcct tagtcagtaa ttccatttaa gaaccaatct 34260 ctactagcat agggtttctt tctgcccaac ctattttcca tgtgtccaaa atccaaattg 34320 tcccaaccta cggattgaat actatctttg agtgggttct agaaggtgta tttctctttc 34380 tcttgaaacc ttggggaaga atttctcatg taaacagagg caaactttag aaattttcat 34440 cctctaatag agtcttctct gattacagtt tgcactgaaa ggagtaaaat ctgtttatgg 34500 agaagaaatg cttttccact tcgtctttag aagtagatgc atgtggccaa gaggagggag 34560 34620 ctacacgtca gaggtagttg cagcctatgg catgatggga gctacaggtc cgagatagat gcagcccaca gcatggtggg agctacagat ctgagataga tgcagcccat ggcatggtgg 34680 34740 gagctacagg tctgagatag atgcagccca cggcctggtg ggagctacag gtccaagata gatgaagccc acggcatggt gggagctaca ggtccgagat agatgcagcc cacggcatgg 34800 tgggagctac aggtccaaga cagatgcagc ccatggcatg gtgggagcta caggtccaag 34920 acagatgcag cccacggcat ggtgggcttc ttgggcttgc agacattgta ctgctgtgga taccagaggg tttttcacca attcgtctac tctactgcag acagtactat ttagacagac 34980 tgcggggttt ctcttagaga aatgacaaat gtttgattag gccatttggt caagaaccct 35040 ggtatcttgt agctgttatc agtgaccagt attggaagag gtagtctgga ttgaccttcg 35100 ttctcagtct aattgtgcac actcgagcac agtatatatc agtaagatac ttgattaaaa 35160 35220 caaaagccct ggacacatac ataaagtgaa tgcaagcaca acccatcaca caacccttaa 35280 ggaagatggc agccatcagt tgaataaaca ttctatgatg ctaacgtcac atgtgtgaca tacactttct actcacttac tgattgtttt tgaacatcac ttggctgata gacattggcc 35340 atgacagact tctcaaccaa attaagctgt gtaggggtat gtgtatgtgt gcacagcatc 35400 35460 tgtcttaact aacagaccta tgacatagtt actcatcgta taagctacga ataattaatg 35520 cctggctaaa tgttgacttt caggctgaaa ggcaagatca accaagtgga attggctgga 35580 tctccctgtg tcaccttgtt tggatttact gttgattttt tttttaaaag acatgagttg 35640 ttactactct gatcattggt tttgggcctc cggtgtatat cagatagcaa tggccagatg 35700 caggcacact ctgtattgat tgccctcact ggaaggatat ctgcagtgta tcagccactg tatccacage ccettecetg ggggaagagt cetecatget gtacageaga etceetgaca 35760 35820 ttttcataga gttcaaagct caagttggtt tggtgctgac attctggatt agctggttga 35880 ctggaaggac tgcttctttc tatacactgt gaaatttgta aaccgcagca gctgagggct 35940 taacatggcc gacaagctcc agctggcagc aattaaatat accgcagacc tttggccaaa 36000 caaaggtttg tggaggcaga gttgctgcat gtgcgctgaa cagactccta ggttgagtgt 36060 tggttcataa gagatgctgt cgactaagga gaggtgagtg ggtggatttt ggccacctct 36120 tqttcqqtqa tccattqtcc ccagaattat tgtatcaaga ccctgcccaa gtagcagcaa aggtggtcag aggaaaggaa caaagccacc agggaggccg caggcctaac agtggtgggc 36180 36240 ctgagtcgtt tagacgttga tctgctgctg tagcaccaat ggcaggatct gcagctactc 36300 cactttttta aatttattaa tttatgtatt tattgggtac cactatgctg taggctatag gctgaaagga gaagatggga atgaaaaaac aataagaaga catttaatat ccattcaagc 36360 36420 agcaaagatt caagagtcta gaccagtgct atccaaaata caatttaaat ttaaaattca gtcctttagt tacactggcc acatttcaca tgctcagtag ccacacgtgg tcagtagcta 36480 tgtattggac agtgctgtcc tagacaatac caagtgttgg atatagatcg ctagggcccc 36540 36600 ttaaatgcct cattggcagg aatgtaaaaa tggttcagcc acttcgaacg cagtttggat 36660 tatcttgtta agtgaacgtt tatatcttgt gagccagcaa attcccccta gatagattct caaagttcac caggaaacac gtacaggaat gttcataata gcatcatttg taatagcaga 36720 36780 acctggaaga aacccatgtg ccatcaacag gaagatggat atatcatggg atagtcatac

aatggaatat gaacaaagca gagacatggt gaattaatca tggctacaca caaaagaata 36900 cctgaatctt agcaatgtga cagcgacatc ctttttcaaa agcccaaaac taaacccaaa gaacataaca agaatgtact ggagcatcct ttgaaatgtg gtaaggctac ataaaaaaga 36960 aaagcacagg aatgagaaac acaagattca gaacagcggc tgccttagtt aaaggaggaa 37020 cagggatttg gggtggcaga agaccaactt gtggtccacg attgagtgat ggagtttttt 37080 tttttttgct ttcacagatg tttatttcaa ataaataaag agagcccaat gatgagagtg 37140 ggccttgaac tgaggataat aagcccagtc ctaaagacca gttattaaaa aaaaaaaaa 37200 aaaaggactg gccgggtgcg gtggctcacg cctgtaatgc cagcactttg ggaggccgag 37260 gcgggtggat cacgaggtca ggagaccatc gtggctaaca cggtgaaacc ccgtctctaa 37320 37380 taaaaatata aaaaaattag ctgggcatgg tggcgggcgc ctctaatccc agctactcgg 37440 gaggctgagg caggagaatg gcatgaacct gggaggcaga gcttgcagtg agccaagatt 37500 aaaagactag agtcctttcc ctccaggtgc tcataggctt actggaacat acaggaaagt 37560 cacttaaaaa tggacacact gtcactgagc atgaacaaat gtaggactgc tgttacatgg 37620 37680 tcatactcgt ttaaaaggcc tacttgaacg tacagtgtca catcaacaga tgaagaaaac agegtegtea cacagtggee tgggetgaag aactteactt taaacttttt getggettae 37740 gaggtttgaa aacactagct tactgttagc tttttacatt attttagtaa ttctttaaga 37800 37860 ttggaactaa atttgttcat atgcagtgac ttcaaatact ctccccctac ccacagccta 37920 ccaacttgga cctgagaagg taaattttta gttgagtttt agagaagaaa gaagagtttt tcaggcactg acattgatga ggtgatacag gagtgggggg aaaattcctt taatccagct 37980 ttctgcttct aggaagagta tgccttctgg aagtccttgt attcataaga ctgtaacaga 38040 agatgtttcc ttttagggta aaattgaact catctgtctt ttcttccatg ttgatgtgaa 38100 aaattagcct tgaatgccac agtgagctcc cctagtcagc agtgttgagc actgaatcca 38160 accttgccct tgatattatt tgatcaaaag tcaagaaccc tggaaatggg aagatagttt 38220 gtggcctgtt gtgaagacag tcaagaaaag aaacataatg atagtcagtg tgtatcctca 38280 ggggagccac tctgcttttg tattctctga tgttttggtg ggtttgcagt ttacaggtta 38340 aaaaataatg tattgggagt gggggtgagg ttggatcact gaaacctggg taaggctctg agggagtcca ctgagtcagg aaataactgt ttacactaga aagctgtttg atcgtgtgag aagatcaaca aggtgagccc tttactccca ttctcaacta ttctggagct gtcatgagat 38520 38580 taaattttta agagctcggg tccagaaaca agccatcttt cgttggcttc tctggcttcc teggatecae cagaggeatt taggaettea geaagtttte teetgeetgg tageatgttt 38640 tccctcagct ttgagtacta atgaaaatcc tgcttcatgt aagggaaagg cctgtcatca 38700 gtgtccgctt caggacactg ccgtcatgtc cctttctgtg ttttgatcag tggggcagac 38760 agagacagcc ttgtcctttc tgtcaggaag atggggttct agctgcttca tattttgcct 38820 caatgttgat tttgctttca gggctcaaaa tccttagtct tcaaactctc caccaaagct 38880 tgcatactgg ccttcctgtt tagctcaatt aatggccctt ataccgtctg ccagccacca 38940 ggcactcact cgtttattcg gcttatcctg actgctgctc taccataaac cagacactgt 39000 tctccatccc aggaatgcag tgaatgaaac aaattccccc tctcctggag cttccagtcc 39060 acatgggagc caagcagtaa ataacatgtt tatccacctg ggatggaaag caaatgtgct 39120 ttgagcagat gactgacttg atgtaactta cctttttttt ttttttttt gagacagagt 39180 ettgetetgt egeceagget ggagtgeagt ggeaggatet eggeteaetg eaageteege 39240 ctcccaggtt catgccattc tcctgcctca gcctcctgaa tagctgggac tacaggcgcc 39300 cgccactccc ccgcccaccc cagctaattt tttgtatttt tagtagtatt tttagtttca 39360 ccgtgttagc caggatgatc ttgatctcct gaccctgtga tccatccgcc tcggcctccc 39420 aaagtgctgg gattacaggc gtgagccact gcgcccggcc gatgtaacat cttttgaaag 39480 ggccattctc attgccatga ggagagtgga caaggatgga aggaaagaga acaaattatg 39540 agactactgt aataatatat tacaaatcca gggatccttt gttagttatg atcgagatgg 39600 agaaatagtc agatttggga tatatattga atttgagcct gcaggcctcc cagttgattg 39660 gggaagatat gttgagacga gtctgaatca aaccttacgt tgaaagtgat gaggaagcag 39720 accetgecat attectettg gagageettt gggettetae catgtageet gacagagagg 39780 tcagcaggac tgccctgggg aaaggatact ttattagcct gtgtaggcag ttattggaat 39840 gacagcaagt gctttgctag gcaaggagat aagaacagag ctctgctacg tggagaggca 39900 cgccaagctc cttcccccaa ccccgctgcc tgcagaggtt accagcatcc tctcggcagc 39960 agtcgtccag cttctctct gatgggttag cagcggccc tctaccgccc tccccacttt 40020 cgatcgatat ttgggctctg agtagccaac tgtaagcctg cgtcttgaag gaaaaattga 40080 gactggcggg gtatgtgagt gtgtgatata aacacaatgg gttttttact ctttccctta 40140 gtgcagatca ttgaaacttc tataaagtct ctgtaatacc cttagagagt acaattaata 40200 gtactgaaga cgtccttata actgaacttt tgtaaaatta ttgctggatt tttgtctttc 40260 cagcacacat taaacctcac caaggtatgg ggctgtcctt cagatgtcac agcctgatga 40320 actgagtgct gacctggctt tgggagcact tttcagttat cccagctgtg catggcccat 40380 tgcatggcct gtgacaattt tctggggttg tttctgtcca tatttccaac ctgacttgcc 40440

caccagggca ctttctgccc ttgtaagtaa atctctatgc tgcttactgt tagttcctgt ttctgaagtg ctgattcgat gtgtaaggct tctcctctt tttagatctg tctagagagg 40620 agtgttttgc ttcagtgagc tccaggaaca aataataagt acagcaagta caaggccgag 40680 gacagaccca gtgcactctt atcagtcatc tgaaatatgc acagcctttc caagacaaat 40740 gtgcactcct gtttctagga aaacaccaga aagtacttac caattaccct gtatatgctg 40800 tgtggaaaaa gacaacatca gcctaccctg aaagccataa caaagcagat tcctccgggc 40860 cgccgacagc tgagtggccc gagttagagc ctctgcagaa tcccagcctg tggcctgggc caggtccagg tccaggtcca ggtccaggtc caggtccagg tccagggggc attcttcccc 40920 40980 tegeatgatt accaegteee teaccetttg eccaaggaac tgaceteate ttagaagaag 41040 tetcaagggt tggtgtgtte ttactaagtg eccaggattt tettecagae ecateacaaa 41100 tccaaagatg gctctcctga agagaggcct aaaaaagagg gtgcggccca gggggatcta 41160 ttatagtaat aaccgcagga acgagagccg ccgctggtgg gcagctcacc atccgccagg agcaggettg gegggeactg ttttatttgg tetteacage agteetetaa ggtaggtgte 41220 atcgtcctgt ttcagagaga aaacggaaac tgagggttaa ggaaggtaac caacttatcc 41280 atgatcacat ggccagaaaa tggtagaggc aggattcaaa gtcaaatgag ggtctttaac 41340 cgctatttca tggtgtattc acaggcagta ctgtaggtta attctgttca ctaaatgtaa 41400 agtatgtctc gtattacaga gtgcttttgt cttagtgaga aaggaaaatc attttaacct 41460 gcacacttaa cctcttggct ttatgtccat ttacccatct aggactcaag cacagagggt 41520 teggaaaceg egttgetgea eggggeecea ggggetgett eecegatatt etgagageea 41580 ggcggaagga caggagcagc tcttcaaact cacagacaac atacaggacg aattgtaagt 41640 tagagcatgg gaaaccagcc ctgtgggtct actgagttgc ctcttctttt gatcctgaga 41700 agtetecate tgatetgagt tatttteatg actettggae ettagatetg gteaaagaat 41760 tccttgcccc aaatgttttt tagatttaga tataactgat gctaaacagc cttttactca 41820 41880 acagtetett tetagttagt teaaagagag aagateatga ataaaatgtt eteaatttta 41940 aggtttttct cctgtaaaaa tttcttaaag tttgatatcc catttttgcc gcagaatgct 42000 42060 agcaaaacaa aacagaaaaa caaatagcaa acaactaata gttggacatt ttggaaatgt atttttcgta agattgcttc gttactcttt aaatatggag ccttatatac cttgtcatat 42120 cttcagttag tgatattatt cctagttgac acggtagagt taagtatttc actattttag gatattttgc agagatcctt gtagcatgaa agtgctctat aacctgaata ggtgttagaa 42240 ccaccagccc acagaaagca gttagttgtg tctgggagta gcaaaatact agattaattt 42300 cttctgatgc ttatttgcca tctcctttaa ggtaaagcga gcgtggggga ttctgagtgc 42360 tgtgggtgtt tttcggtggg tggaggaatg tctgaaatag acgtcaactg tcaggatagt 42420 cttcagagtc attgttaggg acagtgttaa gtagatctca tctcatagtt tcatggtagt 42480 atttgaatgg ggatatcaaa agccaactcc agaaggtatt tgttgcttgc cggatagaat 42540 ggcatcttcc tacatgtgcc ttgtgtgacc cctgtggtgt tattagaagg tctcttgaag 42600 atggagttgt actttcttgt ttcgtctact tgggttgcca ttataaaata tgataggctg 42660 ggcagcttaa gcaacagaaa tttgtcttct cacagttcta aaggctgaga ggtccaggat 42720 caaggcatct tctgattctg ctgctgctgg gggttctctt cctggcttgc agatagccct 42780 42840 etteteactg tgteeceaca ttgeagagag agagggggag etetetggtg tetettataa gggtactaat cctatcagct cagggcccca accttatgac ttaatttaac tgtaattact 42900 ttcttactcc aaatggtcac attggggtta gggcttccac atatgaattg gcggggaggg 42960 ggtaactctg tccacagcag gtgttgctaa taggttctgc cgtttcagtc cagtgcccag 43020 agtgcccatc agttcactcc agaactgctc cagttcattc cttggggcag ggatttggta 43080 ccatgactgc tcttgatatt gctttgtaga tggaactttt agcctttgga tggggggtct 43140 agagaccccc catccaaatt tctcaggtct ggcaggatgt ggtgcagagt ctactacaat 43200 ggcagccctg tgaggctggg atttttgcct gttccattca ggaaagaatc ctcagcacat 43260 agaacagtgc ctggcatcta ataggtaccc agtacatata gccagatagc tgcagttcag 43320 catttgtgtt cacatgcgtc cattttccat tcatttgggg gttttttagt cacaggctaa 43380 atgagattat aaattattgc atgttttctt ttcactttcc tccccaactc acctctattc 43440 aagtcgaact atctctggtc actgtgaaat ttgtttgcaa tagaagaaat tgcgtggtac 43500 agccaacata ggactgctcc cagtgagata cacacattga aaaacagagc cagagagagc 43560 taaaaactgg aatcgaaatg aaatcagtaa aatagctttc atgaaactca tgaaattcat 43620 atgaactagg aagagatatt ggcatgaatg aattttgact ttaaagatga aaaccatgtg 43680 tctccaccca agttgtgggt taaatcttgc caatgaatgc tgaaggaggc acgtgaccac 43740 ggccttccca agtgtacaag gaagaagcca tcagggagtg tgtcgcatgt tcctctgaag 43800 tgtcctcagt tgtcagcctg ggtcttcgcg gtggagtgaa cattacactc atcactctgc 43860 43920 aagaaaggag ttttcaggaa aagcccacga gcgccaaatt atacctctga cttttatcct 43980 agatttgtaa ttaaaaacat gtttaaagac ctaattattt gcgtatttcc cttcagagtt aaccccttta aaggatettt aatacettge tetaetgtte tgaetaaatg tttecacatt 44040 tttttccagt taggctcact gtttcacttc tggaaaatat tgtgtaatta tttcccgatg

gagtgaaaac cccacgaagt ccccagtgcc ttggtgactt caactttatt ctcccagatc gagttgcatt taattttgtc attctattta attaattaat attaaaaaga tagttaccaa 44220 cgtatgattt ctggtctggc cagctgaaaa gtcttcactt tcaaattaat catatattcc 44280 tctgataagt tgcacaattg tcattgcttc ccatctttct cagttttggt tttgaaacag 44340 44400 gatctggatt aagatgatgt taaagtaaaa tttgtcctat atggtgaaat taatttttct ttctaactca tgtctcattt gtagccagaa actcattttc ttttttttaa ggtacctatt ttatttctaa tactgcatca cctataacgg tgcacaccag gctggtgagc agtagggtgg 44520 44580 ctcctgcctt ttaaaaaatg ctcatgagca acccacatga cctacgaagc tgctctaatg 44640 tactgctttc tggaattaag acaatttaaa ttgtactttt aaaatatagt tttagaaagt 44700 aacatttatg ggatttttta aatacagaaa agtataaaaa ataaaagtac cctatgcatc 44760 caccagccag ataagttgtt cctcttttca attttttgta gagatgaggt ctcgccatgt 44820 tgcccaggct ggtccgaact cctggcctca agtcatcctc ccacctcagc ctcccaaaga 44880 gctatgaggc caaagtggga ggatcgcttg aggccgggag ttcaagacca gcctgagcaa catggcaaaa ccccatccat acaaaagtta gccgggcatg gtggcacaca cctctatccc 44940 45000 cagctacttg ggaagctgag gtgggaggat ggtttgagcc tgggaggtca aggctgcagt 45060 gagetgagat caegecaetg caetecagee tgggtgaeag agtgagaeee tgteteaaaa 45120 agatactcat atgcatggtt agcaaatcca agagtataga agaaaataaa atcaagagta aaagtetett ttettateta etttgtaaac atgetgttta egatttttgt atettgtete 45180 cttgagaaat ttcacagaga gagagcaatc aggaaaattt ttgagcgcac catataatat 45240 tgattctaat agcatatcat tataaataca aaccttatag taacatatgt agtctcaagg 45300 actatatatg tttcattcct tctgaggaat ggaatagaat ttattagctt ccatttccta 45360 aaccaggaaa taatgtacta gtaactgttg acacttacag aattggccat ttgttgatac 45420 acctctgaat taaaacttgg atttggcaga tggctcagct actctgataa agttaaaggt 45480 ttgctaaatc tttaaaagct aaatcaggag ttctaagaga agttttcaac tttcctactg 45540 45600 gtaacatgtg tccagcatcc aaagttgcct gtgcactggc aaatttcttg ccttacccta atgccagtgt cattttctga gacagactaa cgcatacatt tattgaatcc tactatgtgc 45660 cagggtgagt aagaaatttc ctctgtcctc agtgcgttca cagtttagca ggggaagcag 45720 acactgtatt accaacacc tataacatat attgctgtta aaatagaagt atgagcaacg 45780 tattatggaa ccacagatgg gaagtgatta atttatactg gaaagccagg gaaggcttca 45840 cagagaaggc gctggatgag tcgcctgacc ttgcaggagg cggaggaatg tgccaaggag 45900 agaaggcgcc tgggcagagc acagtgctgg gcagatacac gggacagaag agctcacggc 45960 aggtctgggg aatttggggt cagctttttg tagcagcagc acgtgtggaa agaaggagca 46020 gaggctggaa gggtgggttc ccaggcctgt tgctgaaggc tgaccttagt ggtcatgccg 46080 aggagettge eteteetgta ggtgggagtg agattgtgag gaagaggate eeacteaaaa 46140 ttcgtcatga aaaataaaac cttgacagca gcaggtagag agactgaagg caggaagcca 46200 46260 gttaggaggc ccgtgggata gtccaggtag aaggtggaga ggcctgaaca cagtggccgt aacgatgact agaagaggac agattggaga ggcatttagg aggcagcatc agtggaaccc 46320 tcaactgcta aattggaatc tgagtgagga ggagggttga gagtggcttc gggctccttg 46380 cctgtctggt tgatgaggct gggggtgctg aagagcaagg gttggagaag gagcatctcc 46440 46500 ccagtggacg agctgaggtc ccctgaagag ggcctggcac tcagagcgac actgggccca 46560 gacatggagt cagggccata ggtggacctg gggtgggtaa cgcctagggg tagaggagcc 46620 tgttccagga gctctgagtc aggcttctga ttttgaaatg actccagagg gagtagaatc aggtatataa atgagttaat atcgaaaaaa aaaaaaaaga gcaggaggaa aattaagtag 46680 46740 agtggctgaa acagttactt ggcagatttc tccctgagag aagctggtca tgagtctgtt ttccatgtgg ccttctagag agacatctct ctccaatctg ctgatgagag gatgtgtggg 46800 gaaaggaggg gtcatccccc acaggtttgg ggtaactggg cacctgttct caacagaaga 46860 gctaccatta actgcggatc tcttctgtgt ggggcacgta gattagctca caccatcaca 46920 gtggccctgc agagtagacc catggggttc tacacatcag gatggggaag ctctgggcaa 46980 agtgagaggc ggagacgact ggcatcaggg tggctggctc ccctggcgag gctgcagtgt 47040 47100 ggcttgggag gacgttgtga cctgccccag aggaggcctg aggctgctgt tgatgctacc atggctgctg ttgttgagaa tgccccgtgg ttcatggttt atggatgaca ttagtgatgg 47160 tgcattctac taaggcggca ctggctcctg gcagattcac ccactcttag cacctgtcat 47220 47280 cactgagccc caagcccaga gtatcctctt tctctcctta aaggggagtt aaaacttttt 47340 tetttettet tettetttt ttttttaata gagatggggt eteaetatgt ggeecaggat 47400 ggtctcaaac teetgggete cagegateet eccaeeteag etteecaaag tgetgggatt 47460 ataggtggga gccaccatgc tctgccctaa gagttgaaac ttttaaccga ggtttaagaa 47520 tagtataaaa atcctatttt ttaaatagaa tcaattatag tatctacagc aacctaaaat 47580 gtgtcaactg aatactgagg tgacttctct aggtctcaga ttggaaggat aaagcttatc 47640 tgatgctgtg tgtttctggc tgcatttttt tgctcccctt tcctctcagt taatagcaga 47700 tcagagaaca gaaggagttt gctcagggcc acctgagacc acggtggcct tcttcccttg 47760

47820 aggtttttcc aacagtcact cattcgtgga ccaaaagcag gccttgcggg aagcttgatt 47880 ctaagggcag tgaagacagg agagcctggg gttgagacta caaagcagtg tgagcactca 47940 aggaacctca agtgaggcaa aggaaagcct gggagaacta ggccagggaa ggggaattac 48000 ctgtggcttt agggaaaggg aacggaagaa ggtgcagctt ggcagagggg agggcgggga 48060 gcgtgccgcg tttgccaggc ttctcttacc accctgagtt ttgctgcttc tctcacagag 48120 tgacaagttt gatatgaggc tccattagat aaggggtctg gtctggagct gtttaattat 48180 tctttgatgt gtttggcaga ttttgtaaaa aaaagaaaaa gaaaaaatta aaattaataa 48240 taataacgat gatgatgcaa cccaaagccc tggccattgt gggatgcagg aaagcctcag gaggatgatg gggacagagc tgtggccacc tggtccctgg ggtcactgcc cagttccagc 48300 tgtggcctca ctctcccct tctccttctt cagccagacc cttggctctg atctgctttt 48360 gatttgaaag gactttagaa catttcatgc acaatttcca gaaatatgtt attatcagta 48420 48480 gcagcttcgg ggcatgcaca gggtcctgga cttacaggac agagatccgt gtggagtgac 48540 agcactgcct tcctccactt acctttctgt atgaccatga attccttgac ctccgtgctc 48600 actttgtgaa gaaaactggc agggattacc ctctccatca gagagatgaa agagtctgag ctaccaagaa agcaacggac tcggccagag tcagccagcg ggccgggctt tcctgccagc 48660 teggeetgtg ttteettege tgtgetetet actttteegg agggegteee ageteagagt 48720 cacccctcct ccagaagtgg ttctggcctg atggaggact tgaaccatct ggggcatctt 48780 ggaaaagagt ctgtttgaaa gcctatagaa gtgttccagg atggaaagca cactagtcat 48840 gtcggccact ctggcctggg tgtgagagca tctgcccgga tgggaagccc ttggctgaca 48900 tgtaaatgtc agctatgtca agtgcccagg gtggtggcgc tggggggctgg gggctggggg 48960 ctgggcaatg aggtggaagt gcctgtgctg tgctcaccta gaggaaggaa cctcacatct 49020 cagttggatt tttcatgcac attcctgctg tcatcccaat catggtggcc aactttggag 49080 49140 tctccttgga gagcctgtga cggcctcagt ggctgtgcac caggcccacc gatgctcagg 49200 ggtgtaggct gcttccgggt ctcatctcag atccccgcca gttctggctg gcgctgtgtc acctettete tgtgteagga teatttttat ecetetetgt etgtetttet gtettteeet 49260 gtgccctcct ttcttccccg gaccagctat ttcagattcc attcaactct gttcagtgat 49320 gctgccgctc tcaatgcggt tagagcgcaa gatgtgagaa cgtctgtgct gagtggccta 49380 aacactgaag gctgcgggtc tttctaattt cagcattgag actttacaag tccacattct 49440 49500 tggcattgcc aaccagttag aatagaacaa taaatcccag tttttgtcat gggcgtctgt 49560 aattaaaatg gcaactggaa caaggcagtc acttactgag cgctgatggg gtggccaact 49620 ctgtggggtg ctcaggaaga cacggggctg tgagatatgg actccactta gagggctcac ctcgtagtca gcaaagagac ttatccagga catgtggaaa gaatgagttt gtgcttggcc 49680 atgctttggg ggccatcaca attaaatgct caaaagtgga ggaggggctg gagtatgtgg 49740 gggatgcttc acagagaagt tagaacctgt gatccttgcg gggagggggga tgggatctag 49800 agaagttggg agagcaggtg tgcgtcctgc acggacccca agtgagcgag ggcccggcag 49860 cctgctcccc tcgacaggca ggccacctcc tgccccagg cttctgcccc cttcagagga 49920 cctgggaaca acgccgttct ggacccaggt ttcagaacac ttccaggtgg agcctggctc 49980 tgagcaattc agtttgccag caggagctcg actgccactc cgtcgtcagc ctttagtatt 50040 cctgccactg tccatccttg tctgctgtcc ctggacactg cagccccatt gtgaagggct 50100 gtcacaagat gcaggggagg cagccaggcc cgggagaact gtcacactgt tcccaaggtt 50160 cactgctctt cattcagtgg ccagagaggt ttgatgtgca taaatttcca ctttgaatgt 50220 gtgagctcca tgatagagga attcagtttt gttggagtgg ccctaaagct cctgaagtaa 50280 50340 caactagaag tttccaaaag gaagatgaca gttttaccta agaaagcgtt ttctgactct ttgagttttc tgaacatgaa gtggatgggg gggtgccctg tccctggagg tgctgagctt 50400 agagagggag gaagcggatg gggaggtgca ggtgttttaa cgccaggctg tctcttcatg 50460 gegtgeeatt tggtgaacet gtttaattet getttteeee eeteagettt eagegeeeee 50520 agctgcgtct tctcgcccct tcatgtttcc ctctcctctg ccaggcagtg aactttctca 50580 gctgctcctt cagtttcaca ttgaaaggca tcgtgttttc tgttttgtcc aatagagtat 50640 tgttacagtt ttctgtaagc tttaagctat ccaaaaatgc tcacagaaaa acaacaaaca 50700 . 50760 cccacaagat agaatttcag gatttagaag tatttcccgg caagggggcc gggattcgca ctcaggccct ggggccacag agcccgcagt gggcctcccc ctgatgctgg gcgaagcccc 50820 aggtgtcact cctgtgttcc cgtctcgctt tgcagcttca tcgctgtgga gaacattgac 50880 agctactgcg tgctcatctc ctccaaagct gtttacttcc tgaaaagtgg agactacgtg 50940 gatcgagaag ccattttcct agaagtcaaa tacgatgacc tctaccactg ccttgtctcc 51000 aaagaccatg ggaaggtgta tgtgcaggtg accaagaaag ccgtgagcac gagcagtgga 51060 51120 gtgtccatcc ccggcccctc ccaccagaag cccatggtga gtgcctggct gttctcaggc 51180 teetgagggg eggggeeagg geetegatge etetgeeetg etteeeegte eteageagga 51240 actcatttag gaggttgagg ctgggccctt cccaggagtg ctgcctctca gtcctgaaca 51300 tgggaggggc ccagggtatg ttcacggggc gatgctgccc tcccagctgg cccatgggtg 51360 accctgggaa cattaactgc ctcacaacgt ttgtgcctca gttacccgta gatgtagtga 51420



ctgactgagg	aagttagctg	cgggctgccc	tgtgggctgg	tgcttcagga	ggaatccaga	55140
gaagtgttca	gatgcccccc	ttgggctcct	ttctaatttt	aatcagctct	ttaaatagct	55200
gcccatctcc	tgtgattgca	caaccaagca	ctttgacatt	tgcaccttag	gagaggcaga	55260
	gaatccaaag					55320
	ctccacttct					55380
	aggggcattt					55440
tttggaggaa	acaggccctg	cccctggctc	cttaaatgcc	ccgtctcttt	gtaaactgat	55500
attcagccag	caatgcctaa	gactttgtta	agatcatttc	tactgctttt	ctttctgctt	55560
caaacacaca	gttcgtctct	gaggaaagta	aaataaatgg	aataagagta	aattgggtaa	55620
ggagatatcc	aaagctaccc	agtcccttga	cccagcacag	ttggccgacc	cgtgtcactc	55680
	gctgcttctc					55740
cccctgggcc	tggtcactac	acagtggaaa	acagacaagc	ggccccttcc	ccaaatccca	55800
	gctgcttggt					55860
	tatgatctgg					55920
	tctctattat					55980
	catatcagag					56040
	tgttcttttg					56100
	acaaatacca					56160
	ggaagcaccc					56220
	ctacactggc					56280
	cgtcacactt					56340
	ctcatgcctg					56400
	attgagacca					56460
-	tctctattcc					56520
	cacgttatat					56580
	gcgcctgtag					56640
	cggaggttgc					56700
	aactctgtct					56760
	atccagagat					56820
	tcaaagacta					56880
	gacctagcaa					56940
	aggtgaaagc					57000 57060
	ctctctacag					57120
	aaggaataag					57180
	gagattccat					57240
	gtgatgctga					57300
	ataggccaca					57360
	gaccgtgaat					57420
	ctgcacagct ctcacctatt					57480
	aacaaaatgt					57540
-						57600
	aaagcacagc taacaacccc					57660
	acagtcagtg					57720
	tagaaagggt					57780
	gcaggtattg					57840
	tttctagcac					57900
	cctaataaca					57960
_	tttggattaa					58020
	tgcaagggtc					58080
	atcataaaga					58140
	atcaagacca				. 555	58181
		J J J J - A A	3355-54			

```
<210> 2136
<211> 4802
<212> DNA
```

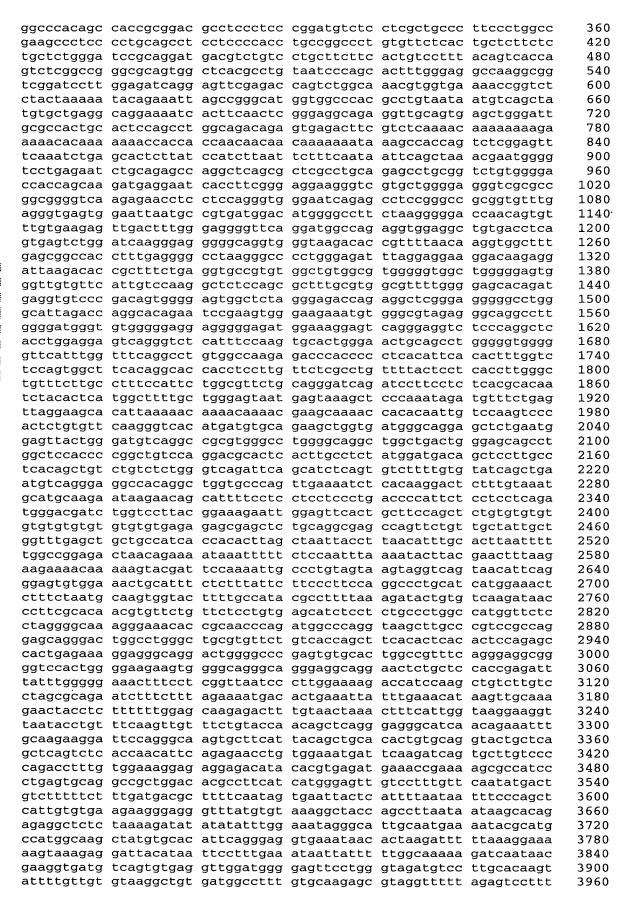
<sup>&</sup>lt;213> Homo sapiens

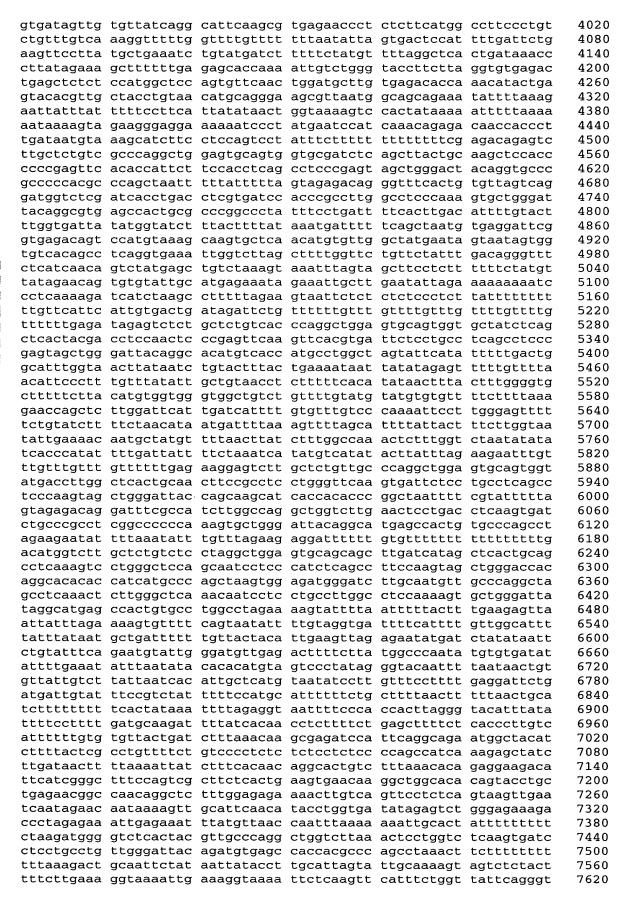
<sup>&</sup>lt;400> 2136

agtttgctgg aacattatca gatggcttac ggaagacgat ggacaatcgg catcagtcag

120 agegggagta cateaggtae catgeageea caagtggtga acacettgta geeggeatee atggcctggc tcatggtaag tcatgggtga catcaggctc tgctgctgct ggtcctcaga 180 240 ggcgcctttg tatcaatctg attgcagcta taaaaaaaga aaggtgggct gggcgcggtg 300 gctcatgctt gtaatcccag cattttggga ggcctaggag agtggatcat gaggtcagga 360 gtttgagacc agcctggcca acacagtgaa accccgcctc tactaagaat acaaaaatta 420 ggccaggcac agtggctcaa tcctgtaatc ccagcatttt gggaggtcga ggcgggtgga 480 tcatttgagg tcaggagttt gagaccagtc tggccaacat ggtggaaccc catctctatc aaaaatacga aaattagaca ggcgtggtgg tacatgcctg tagtcccagc tactcgggag 540 600 gctgaggcag gagaattgct cgaaccctgg aggcagaggt tgcaatgagc tgagatcgtg 660 aaaagaaaag gctgacaaca gaggaaatcc tgtgttggcg tacctgatag ccttccaagc 720 tctcttactt tatcctcctt gcagttgaaa tacgacagcc ggtgagaact cctcattcgc 780 840 tttctgaatg ttgtgcacat tgcaattcct tttcgttctc tggcttctgt tcccaaagta 900 tcataaggtg taatcaacca gacctgttct tagaattgta gctgctactt ctcttagaat 960 tgtaacctct gccttctcct tactgatcat tccttccaaa gaaatggaaa tgaggaattt 1020 gtggccaggt ttgtagccca ggtgtttttt agttttacat aaatgtgcat tcactaaaat 1080 tataaattta tttgcctaag agatgttggt gatggcatga atgcatttgg tctctgactt 1140 tgaattettt taatgettta attetgagte atttgeettt tgttgeattt ttettaacaa 1200 tttcttagta cggcatccaa ggcccttgga actataaatc cagccaattt tccaaccacc 1260 atcettcage catgetgeac tttggccaca cacagetatg tactgettce caggtgtget 1320 tccaagtcct tgctcacaca tggtccttct gctctccctc ctctgcctca tttccttgtc 1380 tatcaaaatc ctactcagcc tgtaagtccc aactcaatac attttcccag ctctattgtc 1440 cctgttagag ttaatgacag agcacagtct gggttgtgta tgtcaccagc tgtgtacatc tgatagattg agaatgtgag gaggggagaa ggaccacttt gcattcacct ttctccttgt 1500 1560 gtacctcaca tgacacctgg cacatagctc atgcatagta aggcttagta aattaaactc 1620 tttgtaccag atccttagga accatccaaa gctatcagag tcatatcaaa cctgatcagt 1680 tttaattatc tgcatttgaa aaagatgaag gaatatagac agtgcaatat tatatttcta 1740 tttgtgctta gggcacgttt agatagaagt ttttgttgat cagctttcct aatggtgaga 1800 tttggatcaa aatgcgtttg cttttcgtaa ggctgcccat ccgtaaaggg agctgtccct 1860 aaggagacgt caggccagaa gtgaaatttg gctgaaagtg atttgtttat ggattttaaa agttgactgt tgggcaatca tttggggtta aggtttaatc attctttctc gtaatggtaa 1920 tgacagtaca ttggtctctt agaagacttt taaaatgaat ataaaatgct ttgttatgtg 1980 2040 tggtggcctt tatctggcca gcatccttgt gacgtggaga gagcatggct ctcctcactt tctggatgaa cacacaaatg tgctgagaaa atgcatgatt ggttcaaagt tgcaaaatca 2100 cctcccatca agaatcattc ctataatatg tacagcctct ccaggagcca atggcttcat 2160 2220 ccaaagagga tccactgagc tctgggttat acgaaggcag tatcctagag tgagagtctt cccttaggat gaaaagacct ttagaaggtg ataagaacca gaatccactc aatccccttg 2280 atgtaagaaa tgggaattgt gctcagttct ctctgcaggc cttgctggac ccaggttcag 2340 2400 tcatgttctg tctctcaggt cccagtctga attcctgttc tgtgtgtgct ctgccaaaaa ctttgttcaa aagtttggga aagggctggg tgcagtggct caggacagta agcccagcac 2460 tttggaagac ctagagggag aatcgcttga gcccaggagt ttaaggctgc agcaagcggt 2520 2580 aaagtttggg aaagagatat tgcctcactg gagcaaattt acccagaatc caaaagaaat 2640 gttgtgaatt gttagtacat tctcacccaa ggagtttcct ttaccaattt gtctcactag 2700 2760 agctgaagag tctagagagc ttcctcacac cccactgtca gagggtaaac atcctgtgag 2820 tgtccctggc acaggtcctg gagatgctcc ctagacgggc tgcctcttcc cttcagtgac 2880 tgtgacctct tcagcctctg ccagcttctg gcctcttcta aggtgttttc agccattgct 2940 gtcaacttgc aaaatgtttg gaatgccttt ttgacctgga ttggtctttt gaactgactc 3000 cattgagggt cccagccagc tttcacagct ttttggggtg ctcttcatga aggttttata 3060 taatcgccga taccgaattt catcaaagca tgcagtagct tttaccttat ttcaagcatc cagtggggtt ggccagtcac ccccatagtg ttctttgaaa attgcaaatg tataccatca 3120 gctctccata tccacagatt cagccaacca tggatggaaa atatttgggg ggaaaaaaga 3180 3240 tttcacgaag tgccagaaag caaaatttga atttgccaca cgtttcaaat actgtattga ctccacacaa atgaagtgat atgtgggcat cgtattagct acaataaata atctagaggt 3300 gatttaacgt atacaggacg gtgtgtgtag gttatatgca aacacctaca gcacattatg 3360 taagggactt gagcatccta ggattttggt atctgcaggg gatcctggat caatcccaca 3420 tggatactaa ggaacaacta catttagtta tctctctctg ccttagatat ctttcttttc 3480 3540 ttttcttttt tttttttt ttgagacagt ctcgctcggt cgccagactg gagtgcaatg 3600 ctgcgatctc ggctcactgc aacctctgtc tcctgggttc aagcaattct cctgccttag cctcccgagt agctgggact acaggcacgc atcaccacgc ccagctaatt tttgtatttt 3660 3720 tagtaaagat ggggtttcac catgttggcc aggatggtct cgatctcttg acctcgtgat

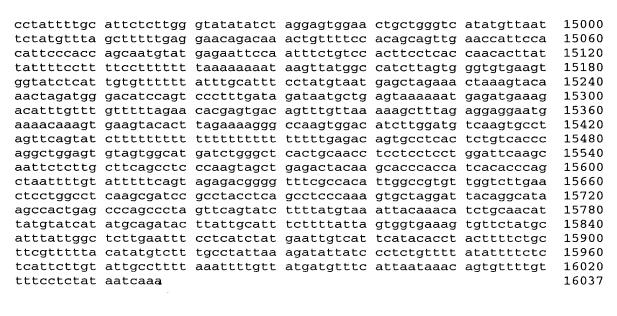
ctgccttata agtctcctgt agctctggga ttttttttt gactctggac cctctctggc tggctttaaa taggtatcat aaggggtgt agccagtggc ccacactcag aggtctgctg gggttttaa aaatgaggta atatatgcta aactatatta	tttcatagga tgatttaatc tcgaaaaatt ttgaactgga ttaatgggca acagagatta tgcttttgct tggtggactg cagcggtttc aggcgccctg cggccccagg cttctcctaa ttcaaatact cagaaacctg tatatttat	aagtgctggg tgccatcatc ctctatctgt ggccactgtt gcacacttta aatctgcagg atagaatggc tttgtcctcg accagtgtta atatctggcc gattttgcat tcagtggtgt tccatactga tgtaactgaa gcatgaattt atatgtatgt ctccattaga caactggatc	ttcaaacttt atcctctcct aacctctcag cttctgacta atcctcttct cttaagttat tcaggttaca taacttcgac ttggaaaagg cagaaacagc gggaagaatg tgtgtttaat atttctgatc tttcagataa atatatagca gaggtcagaa	ccccgaaggc gatcgtccgt cttttctctg acatgtaaca gtgagttggc cattccataa acagcccttg agtggaaggt gcttgttggc ccaggcggtg gcttttgcag tgtgcacttt tgcctaatat atatatatat ttaggattaa	ccaattttct aggctgcca attttttt tatatcctct ctgtctgtgg tcaaggggtt tcttttcac gtgaaaacag actgtaacca agagacacag tttccagcct cttagttata aaaaagatga agcatattt aagtatgtat actgttagaa	3780 3840 3900 3960 4020 4080 4140 4200 4320 4380 4440 4500 4650 4620 4680 4740 4800 4802
<210> 2137 <211> 274 <212> DNA <213> Homo	sapiens					
gctcactgca gctgggacta ggggtttcac	agctcagcct caggtacctg tacgttagcc	cgctctgtca cccgggttca caaccacgcc aggatggtct attacaggcg	ggccgttctc cggccaattt caatctcctg	ctgcctcagc tttgtatttt	ctcctgagta tagtagagac	60 120 180 240 274
<210> 2138 <211> 425 <212> DNA <213> Homo	sapiens					
agtatcagcc gttctgctgt cccatatggt gcctatttta taatgaatgt	ccaaccccat gggattgctg tccaaacccc gcctcccttt taagggccca	catgtgggtc aaagaaaagt tctggccttg acagaaccca tccagagtga gccaagctag ccctgagtga	gccaccccc ataccagctg actgctttaa ctaattgggg actcgactta	atcccccag agactggaaa cgtagctgtt attcttatca agcccagaag	caggtcagca tcagggacag tgcttgaatg acaaagggta gattttgctg	60 120 180 240 300 360 420 425
<210> 2139 <211> 16033 <212> DNA <213> Homo						·
agcgcggcac acggctgggg gggaccggag	ggagacggcg taggggacgg gacaggagag	ggccgggtcc gcagcgctgg gagtggcgag gtcgctcagc tggggggtgc	actaggtggc cttcaggtcc caagagcccc	aggtgagggc accggctgcc ggggaggcgg	gtccccgcgc accgagtgat tgccttctcg	60 120 180 240 300





tcaatacata cctattcaca aactctgata ttttaacata tcttcatatg atcactttta 7680 7740 aagagttatg tatattcttt ttattaaaaa aagataacat atttagaatt tttggaagtt 7800 tgctgacatt tgtatttagc aatgcagcct cactgaacat ttttctctcc aaagacgttt 7860 aaggaatcct gtcttcaatt ctaccatgct gagctgaagg agctttcctt tatcagagct gcagaagagt ccaggaaaca catcaacacc tgggtctcaa aaaagaccga aggtcagaat 7920 gacaagttat tgcaccttcc tcccaacccg tcctcctcct gcggctcttc ctattcctcc 7980 ttcccgcctc ttatatcctc tctcctcctc ctctccctcc tatccctcct ccctctcctc 8040 8100 acccacctcc acctttccac tccgccccct ctaatttcac gggtgtttca gatggtcaga 8160 gtagtgttga ctggcagggc ctcctggcat actgaacctt gatggactca taaaggttct 8220 gatcagacat tcaggttttc agcaacagag atttactttt gtctattctc ccaggaccag 8280 agtagctgat acaaatgtca aaagagggcc agccacggtg gctctcgcct gtaatcccag 8340 caatttataa ggccgaagtg gacatatcac ttgaggtcag gagttcgaga ccagcatgac 8400 caacatgggt ggacccccc ccgcccaaca tatttactaa aaatacaaaa attagccagg tgtggtggcc catgcctgta atcccagctg cttgggaggc tgagacatga gaatcacttg 8460 aacctgggag gcagaagttg tagtgagctg agatcatgcc actgaactcc agcctgtctc 8520 aaaaacaaaa accaaacaaa aaacacaaat gtcaaaagaa tctcaggcca ggtttccagt 8580 8640 ttaataactt gcattaaaat atactctccc tggcctgtaa cattcacatg tcaggtgact 8700 ccattgtctc tgcgagaagg agattggtgg acagatcttg cctgaggtat acacttgggc tgcctcttcc taggttctgg gggacctcca tcaccattac ctttacctgc taaggtcact 8760 cctgactttt catgtcttcc acttaagctc ctttagtttg acttgataag cctacatttg 8820 attggttaac tgccgaccct ctctcagggc tgatcagttc cacagactga aaataccctc 8880 catttggggt tgaaccttat tcatctacat ttcagaaagt gacgtgttcc agtctaggcc 8940 tccaagacca atgatggtct gatgaaccat tcagactcct ctgcgccaat tatgcttagt 9000 accaccagga acatttccat ttctgtgaat aaatgagacg gtaaagaatg ggagacgttc 9060 9120 ttcgcttaaa gtctcagcag ttgtttcccg cattcctgct tggagtattt accacggatg ctctcttcag gcagtgggtt agcagggatg ccctcagttc attgaaacag taccacttga 9180 9240 tctccaggga aagaaggggt gatctttgtt tgcccacatc ctcttttcca gggatgccta 9300 gtgctttgtt gaggggattc agcaggaata tctcctccaa aagcttctgg aaactcccca tgtgcccaat gtcagctctt cccgctttga gccgtccatt ctggttgctt ctgacatgtc 9360 catgtatagt cacagaatgt tagaactggg tgtgatcatg aagggttgga tcaaacactc 9420 caattaacca tgtgagacaa acaccccttc agcctatcac atttcctgct ggtcttgttc 9480 tccaacctgg tgtaattttt ctactttgta ccaacctgct ttcctcgagt gacttaggta 9540 tctttcacca tcctcaactt ggtggatgtt ctcaaggtgt cagtaatcat gaataccact 9600 catatgtgct gtttttattt ctctacataa caacccaaac tcagcaaagt tgaaaacaga 9660 agtttgcttc tcaactaatg atccaggatc atccaatgca tcaggttctt ataaaaagca 9720 actgaatgta gtctctactt ttcttgaaag gtaaaattga agagttgttg ccgggtagct 9780 caattgatgc agaaaccagg ctggttcttg tcaatgccat ctacttcaaa ggaaagtgga 9840 atgaaccgtt tgacgaaaca tacacaaggg aaatgccctt taaaataaac caggtggggg 9900 aagcttttta aaatcctgct agtttgatga agaagttgaa tggaaagatt taactttgta 9960 10020 aaagtgtaag tgacataagc gtaagccaaa aggaatttga aacttaaagt atttctgaat gaatttctta actcagtaga aaaaaacgga aggagtaaaa gatatttgct gcatatatat 10080 attatatata cgtatatata atatatata atatatgtag tgttttatca ctgctcttaa 10140 ctgcctttga taatttctca taaaccattg ctgccaccta gttttggaaa ctaaagatct 10200 tcctataagc ccaatttact tggctagaaa gcaaaaaaaa aaaaaaaaa gtgttaaggt 10260 agtgtgatat gtgggagtga gaggcagtat agggcagggt agagggagag aaggtgaaaa 10320 catgtgtctt taattagtta tttttaaaat taaagtaagt tttatttgaa ttgttaacta 10380 attatcatta attcagtatt acaggetttt aatattaaaa etteatgaca aagaeettag 10440 ttttgacatt gaagtaaaac ttaattaagg caggcattag aataatttgc caaatcttcc 10500 agcccctaaa aagatactat tttaatgtaa ttaaaaaaca aaagcaggta accctcctgc 10560 attttttgta aggtgtactt taacttaaaa aaattagttc tctagttgca aagggtggga 10620 ggaggagaat tctaaccctg gttttagaac tattttaatt tttataataa atgatctgta 10680 tcaatttttt aaagtattac gttaataaat gtaatacttt gctgagcttc tatgtgctta 10740 tgcctcttct gtattttaaa aaagttattt cattagagta tcagaattga aaagattggg 10800 ttaaaataca ttactacata tgtaggtcgt tactctttct gagagagtgt atccatttat 10860 actccctgtc atgctgttgt ggaactataa gtttcatccc actttatgat tttttttctc 10920 atatgttggg ttggataaat aggaaaaaca atacacattt ttttctaatt aaatcaaaac 10980 aaatttgtat ttaatttcat ttgattatat tgctttctta gatctatttg ctgagcacaa 11040 tttaaatgag aaacatettt eteetetgga aaatgtaggg tateacattt tattttgeag 11100 aagaaaacct ttcccagggt ggtactgtgt ctgcttgcaa tgaagatagg aaggaactgg 11160 ttgacttttt tttttttt ttttttttt ttttttagtg ttaactgggg catgaatgtg 11220 gcggtttcca tcacaggtgc tgaaaacact cttggaggca actgcagctc ttttgaaagt

tttaattgcg tctttcaata atccttcccc caggaggagc aaaggccagt gcagatgatg 11400 tatcaggagg ccacgtttaa gctcgcccac gtgggcgagg tgcgcgcgca gctgctggag ctgccctacg ccaggaagga gctgagcctg ctggtgctgc tgcctgacga cggcgtggag 11460 ctcagcacgg taagacccgg gctgcgggaa gaacccaggg acacctttgc gggcagaact 11520 cgagtgccac ttccacctct catattcacc ttctgagttg gcgatgcggc agacgcacac 11580 tgtgcaggca cttggcgttg ggatcgaact tttgttcaag gctgactttt cccaatattg 11640 tctgcgtgat ctgccaaact acacatctca gtcctctgtt ttttcatcgc tagaaggagt 11700 gggcggcggt taaaatgcct tttaaaataa atcaggtagg aggaagctta taaaaatcct 11760 gctagtttga tgaatggcag acttttaact ctaaaagcat aaatgactgc tcggggttat 11820 tgcctcctag agttatgatg aggataaaat gtgggtaatt caggtaacaa gcttaccaca 11880 ttgcctggca actagtaaat gctctacaaa tgtgatccat tattacaatc atcattctta 11940 gcattatgct tttaaagtct aggaacctga aatagagaat gaggaagtct taactttgac 12000 ctaacaaggc tgggaggggg catccaggga ggtgtgaagt ccagttctca gagggtggga 12060 ccagaggcag cctctgaggg cacatccagg cactcggctt cctttcagca tggatctcca 12120 12180 gggtgagaga gtcaaccatg gcaaatggca ggcagtggga ccccatgact taagaggtct gtgtgcgcag cagccattgg ctctccctct gcccaccttc ctgaaactat gctccggaaa 12240 ctatgcagaa tctctctggg gcagataatc ctctggtaac ctctctgctc cggaaactat 12300 12360 gcagaatctc acctgggaca gataatcctg ttggagtggc tcacactgag agccctttcg tttccaatcc ttttctttac tagcaatggt ttgttgtctt taaaaagact atgtttgaaa 12420 12480 aaaaaacaca gtcgcctggg cattgacact tgtcacaata caagatgtct ctggagttgt 12540 tggataagga gaggacagcc acagccttcc tgcctctgac tgcttggtgt ctctcccct tgtcaaggaa gtggcacatg ggacatagga caagtaagag tgctcacaag cttctggcag 12600 atgaaggggc cactgatcct atgtgaacaa acaacaccta cgtgcaaggg gaggaaggga 12660 12720 actgtgagtg cctgtgcgct tgtacatgtg cactgaagtc ggaatcttaa agtctaattc tggtctttca ggtggaaaaa agtctcactt ttgagaaact cacagcctgg accaagccag 12780 actgtatgaa gagtactgag gttgaagttc tccttccaaa atttaaacta caagaggatt 12840 atgacatgga atctgtgctt cggcatttgg gaattgttga tgccttccaa cagggcaagg 12900 ctgacttgtc ggcaatgtca gcggagagag acctgtgtct gtccaagttc gtgcacaaga 12960 gttttgtgga ggtgaatgaa gaaggcaccg aggcagcggc agcgtcgagc tgctttgtag 13020 ttgcagagtg ctgcatggaa tctggcccca ggttctgtgc tgaccaccct ttcctttct tcatcaggca caacagagcc aacagcattc tgttctgtgg caggttctca tcgccataaa 13140 gggtgcactt accgtgcact cggccatttc cctcttcctg tgtccccaga tccccactac 13200 agctccaaga ggatgggcct agaaagccaa gtgcaaagat gagggcagat tctttacctg 13260 tetgecetea tgatttgeca geatgaatte atgatgetee acaetegett atgetaetta 13320 atcagaatct tgagaaaata gaccataatg attccctgtt gtattaaaat tgcagtccaa 13380 atcccatagg atggcaagca aagttcttct agaattccac atgcaattca ctctggcgac 13440 cctgtgcttt cctgacactg cgaatacatt ccttaacccg ctgcctcagt ggtaataaat 13500 ggtgctagat attgctacta ttttatagat ttcctggtgc ttagccttat aaaaaaggtt 13560 gtaaaatgta catttatatt ttatctttt ttttttttt tttctgagac gcagtctggc 13620 tctctgtcgc ccaggctgga gtgcagtggc tcgatctcgg ctcactgcaa gctccgcctc 13680 ccgggttcac gccattctcc tgcctcagcc tcccgagtag ctgggactac aggcgcccgc 13740 caccacgccc ggctaatttt ttgtattttt agtagagacg gggtttcacc gtgttagcca 13800 ggatggtgtc gatctcctga cctcgtgatc cacccgcctc ggcctcccaa agtgctggga 13860 ttacaggctt gagccaccgc gcccggctat attttatctt ttatctttt ctttgacatt 13920 taccaatcac caagcatgca ccaaacactg ctttaggcac tggggacaca aaggggacag 13980 agccatcctc ctttgacacc tggtcttcag ttctgtgccc aacgtatata gttttgacaa 14040 tgaccaggtt ggactgttta atgtctttca acttaccacg taatcctctt gtagggatca 14100 catctttctt tatgatattg tatttctcta cctctaacag taaaaattcc attcaaccct 14160 taaagctcac ttcaaattct tctttgagaa gtttttcctt tctccgcaac cagatgtaca 14220 tatttgaact ctctttgtac ttggagggca cttctttcgt ggtagttctt ttattttat 14280 taatctctgt atccttagat agtcctccaa caaccaaagg ttgggactct gtcttacata 14340 tctgggtgcc cctcatagtg cagtaataag taagttgatt atatacgagc tatgtaactt 14400 atatttttta atggttggat atcactgagt ttttttttt aagaattttt ttattgaggt 14460 aaacttcaca taacataaaa ttaactattt taaagtgaga agttcagtgc cacttagtat 14520 tgttaacaat gttgcataac caccaccttt atttaaagtt ccaaaaaaaa tgttctcctc 14580 taaaaggaaa ccccatccca ttaagcagat actctccatt ccttccttcc tccagcccc 14640 agcaaccacc aatctgcttt ctgtctctat ggatttatct attcttgcta ttttatataa 14700 attgaattgt atgagacctt ttgtgtctgg cttctttcac ttagtacaag tttttgagat 14760 ttatttacat agtagcatgt atcaacactt catttttatg gccaaataaa attgtattat 14820 gtgtttatag cacaatttat ttatccactc attcattgat ggactttggg ttgtttctga 14880 cttttggcta ttgggaatag tgctgctatg aatgtttgtg tacctgtatt tgtttgaatg 14940



<210> 2140 <211> 16107 <212> DNA

<213> Homo sapiens

<400> 2140 60 cgcggcgagc gcagcagcag ggccgggtcc tgcgcctcgg gggtcggcgt ccaggctcgg agegeggeac ggagaeggeg geagegetgg actaggtgge aggtgaggge gteceegege 120 180 acggctgggg taggggacgg gagtggcgag cttcaggtcc accggctgcc accgagtgat gggaccggag gacaggagag gtcgctcagc caagagcccc ggggaggcgg tgccttctcg 240 300 gtggggtcag caacggtctc tggggggtgc ctgggagcgg cagccggtct ccgccttggc 360 ggcccacage cacegeggae geetecetee eggatgtete etegetgeee tteeetggee 420 gaageeetee cetgeageet ceteceeace tgeeggeeet gtgtteteae tgetettete 480 tgctctggga tccgcaggat gacgtctgtc ctgcttcttc actgtccttt acagtcacca gtctcggccg ggcgcagtgg ctcacgcctg taatcccagc actttgggag gccaaggcgg 540 600 tcggatcctt ggagatcagg agttcgagac cagtctggca aacgtggtga aaaccggtct ctactaaaaa tacagaaatt agccgggcat ggtggcccac gcctgtaata atgtcagcta 660 tgtgctgagg caggaaaatc acttcaactc gggaggcaga ggttgcagtg agctgggatt 720 gcgccactgc actccagcct ggcagacaga gtgagacttc gtctcaaaac aaaaaaaaga 780 840 tcaaatctga gcactcttat ccatcttaat tctttcaata attcagctaa acgaatgggg 900 tcctgagaat ctgcagagcc aggctcagcg ctcgcctgca gagcctgcgg tctgtgggga 960 ccaccagcaa gatgaggaat caccttcggg aggaagggtc gtgctgggga gggtcgcgcc 1020 ggcggggtca agagaacctc ctccagggtg ggaatcagag cctccgggcc gcggtgtttg 1080 agggtgagtg gaattaatgc cgtgatggac atggggcctt ctaaggggga ccaacagtgt 1140 1200 ttgtgaagag ttgactttgg gaggggttca ggatggccag aggtggaggc tgtgacctca gtgaggctgg atcaagggag ggggcaggtg ggtaagacac cgttttaaca aggtggcttt 1260 gagcggccac ctttgagggg cctaagggcc cctgggagat ttaggaggaa ggacaagagg 1320 attaagacac cgctttctga ggtgccgtgt ggctgtggcg tgggggtggc tgggggagtg 1380 ggttgtgttc attgtccaag gctctccagc gctttgcgtg gcgttttggg gagcacagat 1440 gaggtgtccc gacagtgggg agtggctcta gggagaccag aggctcggga gggggcctgg 1500 gcattagacc aggcacagaa tccgaagtgg gaagaaatgt gggcgtagag ggcaggcctt 1560 ggggatgggt gtgggggagg agggggagat ggaaaggagt cagggaggtc tcccaggctc 1620 acctggagga gtcagggtct catttccaag tgcactggga actgcagcct gggggtgggg 1680 gttcatttgg tttcaggcct gtggccaaga gacccacccc ctcacattca cactttggtc 1740 tccagtggct tcacaggcac cacctccttg ttctcgcctg ttttactcct caccttgggc 1800 tgtttcttgc ctttccattc tggcgttctg cagggatcag atccttcctc tcacgcacaa 1860 tctacactca tggcttttgc tgggagtaat gagtaaagct cccaaataga tgtttctgag 1920 ttaggaagca cattaaaaac aaaacaaaac gaagcaaaac cacacaattg tccaagtccc 1980 actctgtgtt caagggtcac atgatgtgca gaagctggtg atgggcagga gctctgaatg 2040

gagttactgg gatgtcaggc cgcgtgggcc tggggcaggc tggctgactg ggagcagcct 2100 ggctccaccc cggctgtcca ggacgcactc acttgcctct atggatgaca gctccttgcc 2160 2220 tcacagctgt ctgtctctgg gtcagattca gcatctcagt gtcttttgtg tatcagctga 2280 atgtcaggga ggccacaggc tggtgcccag ttgaaaatct cacaaggact ctttgtaaat 2340 gcatgcaaga ataagaacag cattttcctc ctcctccctg accccattct cctcctcaga 2400 tgggacgatc tggtccttac ggaaagaatt ggagttcact gcttccagct ctgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgagaga gagcgagctc tgcaggcgag 2460 2520 ccagttctgt tgctattgct ggtttgagct gctgccatca ccacacttag ctaattacct 2580 taacatttgc acttaatttt tggccggaga ctaacagaaa ataaattttt ctccaattta 2640 aaatacttac gaactttaag aagaaaacaa aaagtacgat tccaaaaattg ccctgtagta 2700 agtaggtcag taacattcag ggagtgtgga aactgcattt ctctttattc ttcccttcca 2760 ggccctgcat catggaaact ctttctaatg caagtggtac ttttgccata cgccttttaa 2820 agatactgtg tcaagataac ccttcgcaca acgtgttctg ttctcctgtg agcatctcct ctgccctggc catggttctc ctaggggcaa agggaaacac cgcaacccag atggcccagg 2880 2940 taagettgee egteegeeag gageagggae tggeetggge tgegtgttet gteaceaget 3000 tcacactcac actccagage cactgagaaa ggagggcagg actggggccc gagtgtgcac 3060 aactctgctc caccgagatt tatttggggg aaactttcct cggttaatcc cttggaaaag 3120 3180 accatccaag ctgtcttgtc ctagcgcaga atctttcttt agaaaatgac actgaaatta tttgaaacat aagttgcaaa gaactacctc ttttttggag caagagactt tgtaactaaa 3240 ctttcattgg taaggaaggt taatacctgt ttcaagttgt ttctgtacca acagctcagg 3300 gagggcatca acagaaattt gcaagaagga ttccagggca agtgcttcat tacagctgca 3360 cactgtgcag gtactgctca gctcagtctc accaacattc agagaacctg tggaaatgat 3420 3480 tcaagatcag tgcttgtccc cagacctttg tggaaaggag aggagacata cacgtgagat 3540 gaaaccgaaa agcgccatcc ctgagtgcag gccgctggac acgccttcat catgggagtt gtcctttgtt caatatgact gtctttttct ttgatgacgc ttttcaatag tgaattactc 3600 3660 attttaataa tttcccagct cattgtgtga agaagggagg gtttatgtgt aaaggctacc agccttaata ataagcacag agaggctctc taaaaagatat atatatttgg aaatagggca 3720 ttgcaatgaa aatacgcatg ccatggcaag ctatgtgcac attcagggag gtgaaataac 3780 3840 actaagattt ttaaaggaaa aagtaaagag gattacataa ttcctttgaa ataattattt 3900 ttggcaaaaa gatcaataac gaaggtgatg tcagtgtgag gttggatggg gagttcctgg gtagatgtcc ttgcacaagt attttgttgt gtaaggctgt gatggccttt gtgcaagagc 3960 4020 gtaggttttt agagtccttt gtgatagttg tgttatcagg cattcaagcg tgagaaccct 4080 gtgactccat tttgattctg aagttcctta tgctgaaatc tgtatgatct ttttctatgt 4140 4200 tttaggctca ctgataaacc cttatagaaa gcttttttga gagcaccaaa attgtctggg taccttctta ggtgtgagac tgagctctct ccatggctcc agtgttcaac tggatgcttg 4260 tgagacacca aacatactga gtacacgttg ctacctgtaa catgcaggga agcgttaatg 4320 4380 gcagcagaaa tattttaaag aattatttat ttttccttca ttatataact ggtaaaagtc 4440 cactataaaa atttttaaaa aataaaagta gaagggagga aaaaatccct atgaatccat 4500 caaacagaga caaccacct tgataatgta aagcatcttc ctccagtcct atttctttt 4560 tttttttcg agacagagtc ttgctctgtc gcccaggctg gagtgcagtg gtgcgatctc agettactge aagetecace eccegagtte acaccattet tecaceteag cetecegagt 4620 agctgggact acaggtgccc gccccacgc ccagctaatt tttatttta gtagagacag 4680 4740 ggtttcactg tgttagtcag gatggtctcg atcacctgac ctcgtgatcc acccgccttg 4800 gcctcccaaa gtgctgggat tacaggcgtg agccactgcg cccggcccta tttcctgatt ttcacttgac attttgtact ttggtgatta tatggtatct ttacttttat aaatgatttt 4860 4920 tcagctaatg tgaggattcg gtgagacagt ccatgtaaag caagtgctca acatgtgttg gctatgaata gtaatagtgg tgtcacagcc tcaggtgaaa ctggtcttag cttttggttc 4980 5040 tgttctattt gacagggttt ctcatcaaca gtctatgagc tgtctaaagt aaatttagta 5100 gcttcctctt ttttctatgt tatagaacag tgtgtattgc atgagaaata gaaattgctt 5160 gaatattaga aaaaaaaatc cctcaaaaga tcatctaagc ctttttagaa gtaattctct 5220 ctctccctct tattttttt ttgttcattc attgtgactg atagattctg ttttttgttt 5280 gttttgtttg ttttgttttg ttttttgaga tagagtatct gctctgtcac ccaggctgga gtgcagtggt gctatctcag ctcactacga cctccaactc ccgagttcaa gttcacgtga 5340 5400 ttctcctgcc tcagcctccc gagtagctgg gattacaggc acatgtcacc atgcctggct 5460 agtattcata tttttgactg gcatttggta acttataatc tgtactttac tgaaaataat 5520 tatatagagt ttttgtttta acattccctt tgtttatatt gctgtaacct ctttttcaca 5580 tataacttta ctttggggtg ctttttctta catgtggtgg gtggctgtct gttttgtatg 5640 tatgtgtgtt ttcttttaaa gaaccagctc ttggattcat tgatcatttt gtgtttgtcc 5700 caaaattcct tgggagtttt tctgtatctt ttctaacata atgattttaa agttttagca



ggttgcttct	gacatgtcca	tgtatagtca	cagaatgtta	gaactgggtg	tgatcatgaa	9420
gggttggatc	aaacactcca	attaaccatg	tgagacaaac	accccttcag	cctatcacat	9480
ttcctgctgg	tcttgttctc	caacctggtg	taattttct	actttgtacc	aacctgcttt	9540
cctcgagtga	cttaggtatc	tttcaccatc	ctcaacttgg	tggatgttct	caaggtgtca	9600
gtaatcatga	ataccactca	tatgtgctgt	ttttatttct	ctacataaca	acccaaactc	9660
agcaaagttg	aaaacagaag	tttgcttctc	aactaatgat	ccaggatcat	ccaatgcatc	9720
aggttcttat	aaaaagcaac	tgaatgtagt	ctctactttt	cttgaaaggt	aaaattgaag	9780
agttgttgcc	gggtagctca	attgatgcag	aaaccaggct	ggttcttgtc	aatgccatct	9840
acttcaaagg	aaagtggaat	gaaccgtttg	acgaaacata	cacaagggaa	atgcccttta	9900
aaataaacca	ggtgggggaa	gctttttaaa	atcctgctag	tttgatgaag	aagttgaatg	9960
gaaagattta	actttgtaaa	agtgtaagtg	acataagcgt	aagccaaaag	gaatttgaaa	10020
cttaaagtat	ttctgaatga	atttcttaac	tcagtagaaa	aaaacggaag	gagtaaaaga	10080
tatttgctgc	atatatatat	tatatatacg	tatatataat	atatatatat	tatatatacg	10140
tatatata	tattatatat	atatacgtat	atataatata	tatatata	tgtagtgttt	10200
tatcactgct	cttaactgcc	tttgataatt	tctcataaac	cattgctgcc	acctagtttt	10260
ggaaactaaa	gatcttccta	taagcccaat	ttacttggct	agaaagcaaa	aaaaaaaaa	10320
	aggtagtgtg					10380
agagaaggtg	aaaacatgtg	tctttaatta	gttattttta	aaattaaagt	aagttttgat	10440
	aactaattat					10500
atgacaaaga	ccttagtttt	gacattgaag	taaaacttaa	ttaaggcagg	cattagaata	10560
atttgccaaa	tcttccagcc	cctaaaaaga	tactatttta	atgcaattaa	aaaacaaaag	10620
caggtaaccc	tcctgcattt	tttgtaaggt	gtactttaac	ttaaaaaaat	tagttctcta	10680
	gtgggaggag			-		10740
taataaatga	tctgtatcaa	ttttttaaag	tattacatta	ataaatgtaa	tactttgctg	10800
	tgcttatgcc					10860
aattgaaaag	attgggttaa	aatacattac	tacatatgta	ggtcgttact	ctttctgaga	10920
	atttatactc					10980
	tttctcatat					11040
	caaaacaaat					11100
	gcacaattta					11160
	ttgcagaaga					11220
	aactggttga					11280
	gcggtttcca					11340
	tttaattgcg					11400
	tatcaggagg					11460
	ctgccctacg					11520
	ctcagcacgg					11580
	cgagtgccac					11640
	tgtgcaggca					11700
	tctgcgtgat					11760
	gggcggcggt					11820
	gctagtttga					11880
	tgcctcctag					11940
	ttgcctggca					12000
	gcattatgct					12060
	ctaacaaggc					12120
	ccagaggcag					12180
	gggtgagaga					12240 12300
	gtgtgcgcag					
	ctatgcagaa					12360 12420
	gcagaatctc					
	tttccaatcc aaaaaacaca					12480 12540
						12540
	tggataagga tgtcaaggaa					12660
	atgaaggggc					12720
	actgtgagtg					12720
	tggtctttca					12840
	actgtatgaa					12900
	atgacatgga					12960
	ctgacttgtc					13020
2 2 2 2 2 2 2 3 3			2-22-24249		5555449666	13020

gtgcacaaga	gttttgtgga	ggtgaatgaa	gaaggcaccg	aggcagcggc	agcgtcgagc	13080
tgctttgtag	ttgcagagtg	ctgcatggaa	tctggcccca	ggttctgtgc	tgaccaccct	13140
ttccttttct	tcatcaggca	caacagagcc	aacagcattc	tgttctgtgg	caggttctca	13200
tcgccataaa	gggtgcactt	accgtgcact	cggccatttc	cctcttcctg	tgtccccaga	13260
tccccactac	agctccaaga	ggatgggcct	agaaagccaa	gtgcaaagat	gagggcagat	13320
tccttacctg	tctgccctca	tgatttgcca	gcatgaattc	atgatgctcc	acactcgctt	13380
	atcagaatct					13440
	atcccatagg					13500
	cctgtgcttt					13560
	ggtgctagat					13620
	gtaaaatgta					13680
	tctctgtcgc					13740
	ccgggttcac					13800
	caccacgccc					13860
	ggatggtgtc					13920
	ttacaggctt					13980
	taccaatcac					14040
	agccatcctc					14100
	tgaccaggtt					14160
	catctttctt					14220
	taaagctcac					14280
	tatttgaact					14340
	taatctctgt					14400
	tctgggtgcc		-			14460
	atattttta					14520
	aaacttcaca					14580
	tgttaacaat					14640
	taaaaggaaa					14700
	agcaaccacc					14760
	atcgaattgt				_	14820
	ttatttacat					14880
	gtgtttatag					14940
	cttttggcta					15000
	cctattttgc					15060
	tctatgttta					15120
	cattcccacc					15180
	tattttcctt					15240
	ggtatctcat					15300
	aactagatgg					15360
	acatttgttt					15420
	aaaacaaagt					15480
	agttcagtat					15540
	aggctggagt					15600
	aattctcttg					15660
	ctaattttgt					15720
	ctcctggcct	_		-		15780
	agccactgag					15840
	tatgtatcat					15900
	atttattggc					15960
	ttcgttttta			_		16020
	tcattcttgt					16020
	tttcctctat	-		argargere		16107
agagacaga	Jecolocat	aaccaaa				1010,

```
<210> 2141
```

taaacctctt ctctttgtga attacccagc ctcatgtatg tggtttttt ttttatagca 60

<sup>&</sup>lt;211> 466

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 2141

gttttaattt ttaccttgtg ttttaaatgg tatttgcata tgcagggtaa	agaggttgat tgtgggaatg acattctttt catgcttaga tttaaaaaaat	agagggcaca aatatccagt tggattaagg tgggccagca tatgctaagg cgtggtaaag ttgaatagca	attggtgagc gtttttggaa tctcactttt ttttccctgt aaaaacaaaa	atacgagaaa ggaagtgggc agatgtctga agtatttca tttaccatct	acaggcatcc agccttttca tctacataag aaggcatttt	120 180 240 300 360 420 466
<210> 2142 <211> 466 <212> DNA <213> Homo	sapiens					
acacaaatga gttttaattt ttaccttgtg ttttaaatgg tatttgcata tgcagggtaa	accaagacac agaggttgat tgtgggaatg acattctttt catgcttaga tttaaaaaaat	attacccagc agagggcaca aatatccagt tggattaagg tgggccagca tatgctaagg cgtggtaaag ttgaatagca	atcatgacag attggtgagc gtttttggaa tctcactttt ttttccctgt aaaaacaaaa	aaattettgt atacgagaaa ggaagtggge agatgtetga agtattttea tttaccatet	tccgctctct acaggcatcc agccttttca tctacataag aaggcatttt	60 120 180 240 300 360 420 466
<210> 2143 <211> 1669 <212> DNA <213> Homo	sapiens					
gtgatttaac ggtggcgca ccttccagac ctgcagaggg gagcatcatg ggctttactt acctgctgtg agagctacac tgtgcccct atccccgtgc gacagacaga	atgactcact atgacaccct ccagggttac gagggaaggt ttgcaaacaa tttggtctat ggatgagagg tttctcgatg aaatcatgta agggctctgt cccatcctaa agaatggacg	ggcccagtcc tgggggcata ttttctcaga ggccgttccc cctgtgtttg atgaccttgg gtgagcaaaa gcttttgtca cttctcagct gttggataca ggggtgcaac ctccaaagcc acgctggtct	ggcgctatga gcccgggctg agagacatgt ctggtgctgc caccaccgtt tgaactgaag tttatgcagt ctgactctca aaacattccc atgaaactcg agacacaagg tccaatttgc	agttcagtgg aatggacacc tcccgtgctg tcgtcctctc ttgcaaattg tcaaggtacg ctgattagtt cagggccagg tggaggccta ctctaactcc gacaaaggta tggaatatct	ctgggtgca tccctcaaag ctgggcacac acttcctacc tccttcttg actcccaata atccacgcc gagaaattt ccattctcaa ctacgtggag ccaaaaaggt gtgcggctag	60 120 180 240 300 360 420 480 540 600 660 720 780
aaggacactc cggagggtca cagggaatag agagatcaat ttaaaacttg tcatcccagc aagacacctg aacccaggtg gaatactacg	agacaacacc gggtattca caaacaagtc ctagaaagga ttttccagca aatcccatta tactcctatg cccatcaacg cagctgtaaa	atatcagcat ggcctcataa gaaaagagaa tagtgcaagc ggtcaaggtt gtttggagat ctaggtatat tttatcgcag gtgaactgga gaggaaagaa tgaattaatg	atgctgcctg actgcttcag cagggttggg ctgtaggtgg ttctcaaaga actcaaagga cactattcac taaagaaaat atcatgacct	gagaaaagcc ccaatgctca ggagtgggag ggaaagaggg actaaaaata aaacaaattg aatagcaaag gtagtacata ttgcaacaac	tagctaggta tgagatttac ggtgattagc tgcttgtgta gaactaccat ttctatcaaa acatggagta tgctaccatg atggatacag	840 900 960 1020 1080 1140 1200 1260 1320 1380 1440 1500

3300

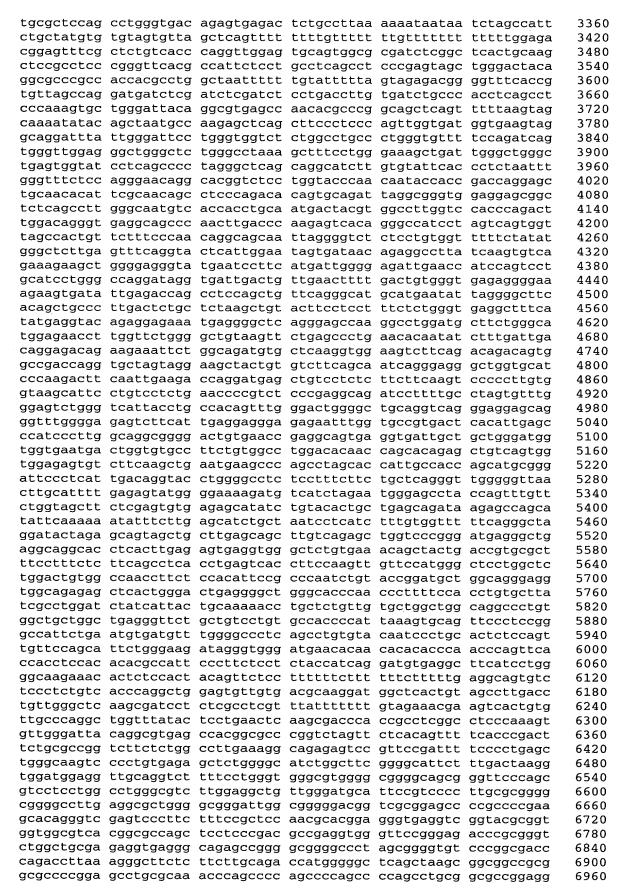
<210> 2144 <211> 21010 <212> DNA

<213> Homo sapiens

<400> 2144

60 cggaagtgga aacggaaacc tttttaggga gtccaaggta cagtcgccgc gtgcggagct 120 tgttactggt tacttggtaa gctggtgtga ggggaacctg ggagggtcag ctccggtcct 180 gggtcgggag gggtgggggc cagaggattc agggccggag gttctggtgg gggcccagtg 240 ggcgggaccc gaggacggag gggccgggag gccgagaggg gcggggtcgc ggcggggcct 300 gagggacgga ggccgggata cttgggaaag gatccgccgg ccttgaactc ccgcctccgc 360 cgcccctagg cctcatggcg gtccgagctt cgttcgagaa caactgtgag atcggctgct 420 ttgccaagct caccaacacc tactgtctgg tagcgatcgg aggctcagag aacttctaca ggtgcggcgg gagccccggg gcttacggtg gcggggaggc gtgcgcagga gtcaagagct 480 540 ccggcagtgg gagggtgccg gccctctgc cccgccacca ccgagtccat gtccctacag 600 tgtgttcgag ggcgagctct ccgataccat ccccgtggtg cacgcgtcta tcgccggctg 660 ccgcatcatc gggcgcatgt gtgtgggtaa ggcaggtgga ggacgccgag ggagggagtg 720 gtctccaagc accattaatt acaccccgg agggaacccg gagtgaccta gggattccca 780 gggtatcatc tgttatctct gggcactata gaatctctca ggccaagcgt caggagatcg gggcaaccct ctagcaaagg ctgctggata atagtaataa caaataatgt aaagtgcttt 840 900 cactcctgtt ctcattcctt cgtcacaaag acactagaag gtaggagtta ctggcctaac 960 ttgactgatg aggaagttga gacttgacct aagtgactca gtaagttcca cacctagttc 1020 ctagtgttgg agaaggattt ttctcttttt ttttttttt tgaggccaga tttttgctct 1080 ttcgcccagg ctggagtgca gtggcaagat cacagctgtc tgcatcctca acttcttagg ctcaagtgat cctcccacct cagcctacca ggtagctagg gccacaggca cgtgccacca 1140 cacctggcta attittacat tittggtaga gacgcggcct ccctgtgttg cccagcctgg 1200 ccttgatctc ctgggctcaa gtgatcttct taccttggtc tcttaaaagtg ttgggattat 1260 aggcgagagc cactataccc agccgaggat ttgtatctca tctctccctg ccactgactg 1320 ggcaaggtgc tttctctttc taagcatcca tttctgtctc tgtaaagatt agctaagata 1380 1440 tgcggtcttc ctgctcagtt acgttggaat cttaaattcc ctttaccaca tctctaccct 1500 tattattttt ttttgagatg gagttttcgc tcttgttgcc caggctggag tgcaatggca 1560 1620 cgatcttggc tcactgcaac actctcttca agtgattctc ctgcctcagc ctcccaagta 1680 gctgggatta caggcgcatc ccgccacacc cggctaattt ttttgtattt ttagtagaga tggagtttca ccatgttggc caggctggtc ttgaactcct gacctcaggt gatcctccca 1740 1800 cctcggcctc ccaaagtgct gggattacag gcgtgagcca ctgcgcccgg ccggtccttt cattaagctg gatctgtctt ccattactgc tgcccattgt ttcttagttc tgctcattga 1860 ggtcactttt agaagtctgt ttattttatt tttttacttt tactttaatt tttaaaaaatc 1920 1980 ttaagcctgc ttgggaggtc gaggcaggtg gatcacctga ggtcagcagt tcgagactaa 2040 cctgaccaac atggagaaac cccgtctcta ctaaaaatac agaaattagc cgggtgtggt 2100 ggcgcatacc tataatccca gctacttggg aggctgaggc gggagaattg cttgaaccct 2160 ggaggtggag ctcaccctgc ggtgagctga gattgtgcca ttgcatttca gcctgggcaa taagagtgaa actgtgtctc aaaaaaaaac aaaaaacaaa aaacaacaac aacaaaaact 2220 taagcctagt gacctcaaag tattttccta ttcagttaaa atactctgat ctctaaccat 2280 gcccttagga cttgaagcaa gttctgacaa caagggagat tttagcttag tccttgtgta 2340 2400 ttttatgatg ggagtgacct ggaattcaga aattgattgg cgtgtatttg tagattgttc attcttgttg ctgtatggtg tgttttgtgt aagtatatca caacgtattc atccattcca 2460 tcgacagtgc atttgggcag ttttcacttt ggtctgttag gaatagtgct gctggccggg 2520 catggtggct cacgcctgta atcccagcac tctgggaggc cgaggcgggc ggatcacgag 2580 gtcgggagat cgagaccatc ctggttaaca cggtgaaacc ccgtgtctac taaaaataca 2640 2700 aaaaaattag ccaggtgtgg tggcgggtgc ctgtagtccc agctacttgg gaggttgagg 2760 caggagaatg gtgtgaaccg gggaggtaga acttgcagtg agccgagatt gtgccactgc 2820 2880 ctgctatgtt tttttagtga acacatgtac atatttctac tgggtatatg atacctaaga 2940 gtggcatggc agagtcacag gttatgtgac tatttagtag tagttgcaga tgatgccaga taattateta aagtgattga ceaaettaea eteetgtete agtatgagag tteagttget 3000 ccatatatct ttgccaacac ttggaattga tgacttgtaa aaattttagt cattctggct 3060 3120 gggggcagtg gctcacacct gtaatcgtag cactttggga ggtcgaggtg ggcggatcac 3180 ctgaggttag gagttcgaga ccagcctggc caacatagtg agaccccatc tctacaaaat cacaaaaagt tagccaggtg tggtggcacg cacttgtaat tccagctact caggaggccg 3240

aagcaggaga atcacctgaa cccaggatgc agaagttgca gtgagctgag atcgcaccac



gcccggaaca gccccggcat ccgccccagc cccagcccca gccccagccc cagccccagc ccgagcccag cccgtggggg ccgctggacg acgtgcgctt cctcatcgcc tgcacttcct 7080 ggtactgacg gcgtcctccg caggatgtcg cccgtctgtc cgccgtcccc tgtggttctt 7140 7200 gcctgccttg tetectetee ceaegteeet gegtetetta caeeeeetee caeeegagge tccccagaga tagcagagaa ttcgaagagg tcgccgggga ctggaaagaa gtcccggcag 7260 ggccgccttc gcagtctaca ccccagcctg cttcccagcc tacacccaga cccagctcag 7320 accttcgtga ccaccccatc cctttctccg gctggctggg tcggggggcat ccctctctgt 7380 cgctggcttc cagaggcagg acaggcctcc tggtaagccc gcaaagttgc tgacctcctg 7440 acttcgtctg ccttttatta atatctgtat tgctgataac cgtgctcttg actatgtgtc 7500 ccaggtcatg tcccaggtca tggagaagcc cgtgccacag tgaccctccc catactcctg 7560 ggggggctgc tetecatect ggategtaag gaggeateat caggetgtgt teetggaace 7620 ccaataaccc tgggccccca gggccagcct gttgtagagg gaggctatct gaccgccggt 7680 ctggcagagg agatgggtgg gcagctccca gacaccccaa aggacccggt tctcttccca 7740 gagcgtccta aggttactct tggaacctga tctttgttcc ctcatcccag ggaaatgaca 7800 cactotgtat ttotgtttta tttagaaatg atttaaaaaa cattatacaa aggotgatca 7860 gtttaaaatg tgactgacac tgaaatgctg tgatgtcccc caggctgagg ggaagctagg 7920 ctctggggcc cccagtgctt tgcccctctg tctgccctgt cctggggtga tggacaaaca 7980 gatgaccaca ggcaggagaa tctgagattg gaagcctcta ggctgagccc tctgggcctg 8040 gccccacatc cctcacctct gcagcctggg ctgcctgcct ccatctcctg ttcattctca 8100 gctggcctgc caggagccaa tggggagcct ggcgggaggc gggggtgcct agagctttca 8160 agaagtgaga gcaccaacct gaggagtgga cagggaccag gaagtggggg aagggaggcc 8220 8280 gatggggaca caagacccag ccagcccact ggatggcccg ggcaagtaac aacctctctg 8340 tgcttcatct gagggcacgg tgagagttac cgtcggcctc ccagggccta acacgagttt 8400 catgtgagtg gacaggtgtg agctaataaa gtgctttgca aagtataaaa cactgtacaa 8460 acctatgaat cactaatatc teegeagttg tteeetgeet gteeeaggga geetgeeett 8520 ggccaaaatg agaaaaaaca aggatgatga caggggacac agcggaccca catgggcacc 8580 tctgggacaa gagattttgc ttgagacagc tcccagggca gcaggagtcc ctgtctgtgc 8640 tacagggtaa gccgacccca atcccagaga ccacagggtc gggggcaagg cccatgcagg 8700 ctcagtgagc aggggtggca tccgagaccc ggccagcacg ctggagactg cctgacacct 8760 ttttggcttt ggcagagagc cagtgggcat tgatgaaccc attggccttg tctagggctc 8820 ctcagtgaca agcagggctg cctccgccgt actgtggagc aaggcaggcc aagccctagg 8880 aactcctgct ggagacagtg aagggcgggc cagtgaaggt caaaaaggga gcccctcag 8940 cttggggctg ctaccggtag gggtgtcctt ctaagagcag tgtggggaaga tgggcccagt 9000 gagcgaggtc agcaagggcc aagctctggg aaaacactgc ttccagccga gagattgagt 9060 cggcctcaga gtagctggag tcggcctcag agtagtgggg gcactgagca cttcagacgc 9120 ectggteece tteegaagga eteceagget etgeeagtgt tggeeetgea geeatetetg 9180 cctcacctaa ctggtgaggc tgagctccag gctgcaagtg acagactgga gcaaagctgg 9240 ggacagtgac aatagagggg agtggaggac ggtcacaaac tcggatcttc ctccagaaat 9300 ggggtcagct tetgeeccag etetgtagee ataggageag agetcageta etggggtgte 9360 tgggcgctag agtggcctta gcagcacctt ggtccttgtc gcctggggga gggccgctat 9420 gctggcctca tcaccaagac agtcacctct agttcaccta aagcctcaag cagcctttgc 9480 aaaatgggac agtagtgaca ggacatttaa atattcacga tgtgacagct gggtccttgt 9540 cagacccagc tgggccacag ccctgcctgc agcatgtgac cctaaatcct gggtctccga 9600 agagaccctg acaagtggag caggtttcct gagggatctg ccgtctgcca gcagggaaac 9660 ccaggettgt tgctcactgt gtcagaagca ggggtcctgt agcettggag gacagtgggg 9720 tgggggtagg gggacatctg accagcaggt gttggcaaaa ggggaccagg actggtggta 9780 teteceggat gggggatgag agetagtget ggetteceae agagggtget gggttecage 9840 caggagtgga gctgtggtac ctcatggaca ccacaggatg ccgtgaccac aggggctcct 9900 cctggcatgg tccctgcctc cggatggagc ctggcctatt cccttaagta gggagtagtt 9960 tgcccaggac agaaggctgg cagctgggtg ccagacaccc accctggggc acagccccca 10020 taattccctg ccccacgctc agcctaggcc aatgcaccca ccacttcagc tgtacgaccc 10080 cagcctaggg ccctgctggc cctggtgagc actggccaga gctgcccctc agaccctggt 10140 gaggaagggc ctggctggcc agaccaagtg gatagagagg gctctgggct gctcacaccc 10200 attcctggac tggccgctta tagtaggtga caggctgagg gcctgtcttg ttcttgaact 10260 ggaagatggt gtagaccagc accaggatgc agagggacag gatgcagggg atgaccacgg 10320 ccacggcgtt cacggagece ggcacategt tgatggteac catgatgtee acgtegteet 10380 ggggcagccg ccgctccttc cgccgctcca cctccttctg gttgcagccc atccagtcac 10440 gcaggatgtt gcgcgggtag cctggctcca cgctcagttt ctggttgtca aacttccagt 10500 agteceggee ettgtagaaa taggtgtaat etgeagaaat acageecage ateaceaete 10560 ccagacactt ccggcacctg ctctggggca gtgtgaaaag gagggcacag gcactgtggc 10620

aagggaggca aggtgggcac acctggaggt ttggggtgca gtgcttggct gagtcatgga gtaagaagct gcagaggggg acacccggga cctggagtgg tccgcctgtc atctacgggt 10740 gctaggaaac cagaggggct tcagggagaa ctgggacatg gttcactttg tgctgcccag 10800 acaggacccc ttgcacgcaa gcctgggtca cagctctgtc acactgtgcg cacaggtccc 10860 cettgeeceg cteatgtggg ctecattaag ceteageetg geteetgett gageeaaggg 10920 aggcagggag caagatttca ccttgtgttg acagcaagac ctctctgcaa ttatggattt 10980 ttttggcttg gcacacatca cttcacaaca cagatgcagg acctttggga gccttctggg 11040 agagaggetg ggcageeetg ecaateaete eetgggeaae eaceeeaggg etegageaae 11100 agcctgagcg gcccagccag tgggcaaagc agcttgctta ggccgtcctc attggctggc 11160 ttcccaccgt ggctagggct ttcattggtc tcggtccttg atgtcacctg tctctgaggc 11220 tccccaaaaa gggagatctt gtgcgtaaag catcaggtat acaagacagc caacaaatag 11280 cagctgtggc cattggcttt ctcagcagtg aagcctcctc agagactcct tcccagccat 11340 ctctaacacg gcccctcta gctcgttgct ctctcccagc atttatttcc ttttttttt 11400 tttttaagac aaggtctcac tccattgcct aggctggagt acagtggtgc agttgtaact 11460 cactgcagcc tcaaactcct ggtcttaagc aatcctctgg cctcagcctc ccaagtagct 11520 gggactacag gcacatgtca ccacgcccag ctaatttttg tattttttt ttgtagagat 11580 gaatctcact atgttactca ggctggtctc gaactcctgg cctcaagtga tcctccacc 11640 tcagcctccc aaagtgctgg gagtctttcc cttatagcgt ctgttgccat cttgctttat 11700 gcccctagac ttggacgtct gcaagtcctg ttgactgcta cgtccccagc tcccaccaca 11760 caagctgtct attattatgg agtgagtgaa tgaatcctgt caatccacat aaactgaaac 11820 ccatgatgat gacaatgatg atgacgatag cagctaaaat atacagcatg gatggtgtgc 11880 taggcattat ttctaagtat gctacataat ttgtcttctt taatcctcac aaaaccatta 11940 tataaaggta ggtactgtta ttatcatttt ataaatgaga aaacagaaaa cttattaaag 12000 atttgctcag attcatagtg agtggtacta tggtggttac gaacccagcc agtccagctc 12060 tagagtctgt gtttttgacc atatcaatgg agatctattt aacaaacact cctggaggcc 12120 cactetgeat etggecagge tageagetee teetgagaag eteetagget ggtggggaga 12180 caggctgagt gtctgatggc agtcgtgggg gctggtggcc agcatggctt ctaggaggag 12240 ttcaggaaac ataaaaagtt tctctcttga tgcagtggct cacacttgta atcccagggc 12300 tttgggaggc tgaggtggga ggattgcttg aggccaggag tttgagacca gcctggccaa catagtgaaa ccctgttgct acaaaaaaat gtaaattagc caggcacagt ggcatgtgcc 12420 tataatccca actactcggg aggctgatga ggcaggagga tcatttgaga ctaggaggtt 12480 gaggctgcag tgagctatga tcatgccaca gcattccagc ctaggcgaca gagtgagacc 12540 ttatctctta gaatttaaaa aaaaattttt tttgaaggtt ttctttccat cttcttgccc 12600 tcgagccctg tgaaaaagtg gctttgaaac atgcatgccc atcattgctt ttcagattgg 12660 gtaactcaag gcgtccctgg agtacactga ggataagtgt ttgagaaatg ctgtctgaag 12720 gaatgaagtc agtctatgac aacgtctctc tgccgtgaat cattcctgca gatgaaaaag 12780 tgtgacttgg cagctggtaa gtgaattaat ggaccacgtg aacatgggta gatatgaggc 12840 agttgtctgc caccaggtgt tttttcaaac ctggacgccc atgggcactg agtatgcccg 12900 tgggcactgg tgaggaccac ataaaaccgg ctccccatgc ccaccctggc ccggccctta 12960 cgtacatcct tccttgctga tgaaggctcc ttgggggagcc tgtggggatgc ccttccacac 13020 ggtgatgggc ttagggtagc cagggtccgt ggcccgccgc tcctcgctgt agcgccagta 13080 ccgctcgcct ttgaaaaagt aggtcttgcc cacaggttcc cagcgcagag ctgtgtcaat 13140 gccttcacgg ggcaaacagc tgcccagctc ccccaggctg tgggggtacc caggctccac 13200 cgtcacctcc ttaaacaccc aatacttgtc acctgtggcc aagaggagcc caggatcagc 13260 ttccccagtc actcagtgcc gtttgcccat cttcagggtg tcaggtgaaa acagtctgat 13320 gccctcagcc ccttggccca gttagagttg ggaagggcac gaagcctgag gccagtcaca 13380 gatcctggac aacttgcctc tgctgcctgg gctccgagtc ccaccctctt ttgttcatgt 13440 gacttgctcc tctctcctct ctggtgatct cagccactta catgactttg catatgcact 13500 accactecce aaacetgeta ecagtgacae eegactetga ggeteteeca etggacetga 13560 gcagcagagc cagaaaccct gacctccctc ggcctaccgg cagctctgca ttggctggct 13620 ccccagagct cctcatctgc accacagagg ggctccctcc tcatcacctt ctgcctccca 13680 ggtccccaac agggagtcct agcctcactg ttgaccctct ctttccttct cctctcagta 13740 ttcagccact tcttttttt aagatggagt ttggctcttg ttgcccaggc tggagtgcaa 13800 tggtgtgatc tcagctcacc acaacctcca cttcctgggt tcaagcgatt ctcctgcctc 13860 agcctcctga gtagctagga ttacaggcac gtgccaccat gcttggctag tttttgtaat 13920 tttagtagag acgtggtttc accatgttgg tcaggctggt ctcaaactcc tgacctcagg 13980 tgatctgcca gccttggcct cccaaagtgc tgggatttcg ggcgtgagcc actgcgcctg 14040 gccgagtatt cagccacttc tgaggccctc tgactctcct ggcagctgtc ccctgccctt 14100 cagctgcacg gctcctccct catttgggcc tcatgagtgg cgcgctccag aaccacctca 14160 gaaatggctg cectgeeeet gecatgtetg teaceteetg eeetetgget etetgetget 14220 cggaaacatt ccatgaattt ccagccttgg cctaatggat caagaccaca ttctggcctg 14280

gcagccaggg ctcttcagga tttgcctcca aatgaccttt ctgggccatt tctcacagct ttccaaggcg gggcctccgt ggccatcagg tgggccttct aagccctgtg gccgtccgta 14460 cacateceag ecetgeteet ttatteagee gttgteeete tggaatgeet teettgette 14520 tcactatctg tatctcaccc atctgaggtc tggcccgagt caagataact gtcatgaaac aacctagcac agtgctgggt acagggtggg caccttagct ccctcccaca ccctcccccg 14580 acctcccag cttgagtgac ctcttccctc tgggttctta cagaactgac ccgatggcct cccatgaggt actgggtggt cttcaattgc ttgtcccaca ctctacttca tgtggacgaa 14760 gctggtcacc ccaccaatct cggcacatac agattctcag tctcactttc tgacttgatt 14820 tgtcagaggt cagtgtctcc gttagactag aggggccctc tgaggacatc tgcctcccac 14880 cccgcctctt ccagtttaga tgggaaaaag gaggtcccaa gaccttgggc agggaactgt 14940 cccacagcac agtctacatt acctttgaag aagacaaatc tcccatcggc cctttcatag gctgcgtcga tgcgggcagg caggcccttc cagaactgct cgatctgcat ggggtagccc 15000 tcctgcactc ggttattgcg cagacgccag aaccagcgat cctgggagga agcgggagag 15060 15120 ggggagagag gtgtgtcagg ccctgcctcc gaacccagtg attgcagctg tggggcttag 15180 gtcccaacag cccagcctc caccgagact gtccattagc tgcttctgac ttttaaagcc ctgggaggaa gacaggatgc tcctgtaact gtcttcaatt cagcctcctg ctgactcttg 15240 15300 ctgctgggtg gacaatgaga caaacagcag acaggcctgg tgtggaaaag gaggtgtgag 15360 ggagccggaa aggatgatgt tggggcctgg agtggccaca tgggggcagt ggagcgtcac 15420 tgacatcage cagactggte etegggacag tgggaggetg gggtggteae tgageetggg 15480 ccgagcgccc tccatgaggc tggctccatc cagcagggcc aggatcatgg aagccaagtc 15540 atgggaattc cctcgagacc tgggcatgaa ttcacattcc tccatttata gctgcatgac 15600 ctaggcctca cctgcaagtg caggtaataa tggagaatca gatgagagat tctaggcaaa 15660 atgcccagac cagtacgggg cacacagtcc atgttgagta aatggcagct aaatagtccg 15720 agtecagtaa aaacgeetet tgtaactggt geeteagtet tgggetggta cacaageagt ctaggcaagg cctgtagcct ccaggcctca gttttctttc ttttttttt tttttagatg 15780 gagteteget etgteaceca ggetggagtg cagtggegea ateteggete aetgeaaget 15840 ccgcctccca ggttcatgct attctcctgc ctcagcctcc tgagtagctg ggactacagg 15900 15960 cgcccgccac cacacccggc taatttttta tatttttagt agagatgggg tttcaccatg ttagccagga tggtcttgat ctcctgacct tatgatccgc cctccttggc ctcccaaagt 16020 16080 gttgggattg caaggcgtga gccactgcgc ccagcctcca ggcctcagtt ttcttatgtg taaatgggga tgataaaacc cggacctgcc tatgaacggt tcagttggat caaagtagaa tgagtgcaga agaagaagca tgatttgtaa aagatggtac aaaagctagt attttaaaag 16200 16260 gtgttttaca aagcactttc acatccaggt ttttgacctt attttgactt tcatgtctct 16320 gttaagttga tctgagatat acggagtctt aagaaaggcc aggtgacttg cctagagcca 16380 ctcagtgaga agccagactg gggctgactc acgctgcccg attcctgcgc agtgctcagt gcgtgctggg agaactccac aaggggagcg aggcagcctc tttcaccatc ctgtgtgatg gagccaccct gcccagatcc ccttcagaga agggcttgtt gccccagtgg ccagcagtgt 16500 ggccagcagg cagttttcaa ctgtcagccc ctttggggat gttccctgct tcagagagct 16560 ctcctcagtc actggatgcc cttcctcatc cagtgattga atgaggtagg ggttataatg 16620 ttccagatat tttggaccca acgtaggctg agtgacaggc caccgtagcc ccagagctcc 16680 ctgcgggggt ggctgaggct gccatgggcc tctgttgcca cttaacctct ccctcttccc 16740 tgtcctgctt ccttctcccc ctcacaatg ttgattctga aagtactctc taatcgaaat 16800 cctgcattcc agaccccacc tcagagttca ctccccgaga gcccaacctg caacacgtca 16860 agcagactgc caccctgtca gtccatggct gatggaggac agatgacaag atataccctg 16920 16980 ggctgctgcc agtagcagcc cctcaagcct tggtagggtc tggagtcaga ctcagccacc actgacctag cccctactcc aagttgacca tcttcagagc cgggtactca ctggatcttc 17040 acacactett tgttagagga atgactecce caggtttegg atggagaaac tgaggteeca 17100 agaagggtgg tcacagacca gaagccagct tccagcactt tctcccagca ttaaccccag 17160 gggaggtgag ggatcaccca tctttccccc tccctcttgg gaacagttga ttcacccagc 17220 agcactagga agagacccca tgccctggcc actgggctag ctcctgtcca ggccccattg 17280 taatcgaatc ccaaatcagg agccttcccc agctccatga tgtcggggag gaggaggaaa 17340 17400 ggtcaggggc cagctgggtg gtgccaatcc attggcccta ccttaaagac aaacatctcg 17460 ccccggaaga gggccactgt gttgaagttg ccgtcacaga tgttgggttt ggtgcctggt 17520 gtggatggcc ggtccccgag gggcggccga gggggcctgg gctggcgctc gtgtttcctc 17580 tccgatggtg agtggatcct gcggacgggg agtgtaggga gtggccttgt gggctccaga ggctcggctg ggggtcctgg agagaggagc tgcatcttag agagggggca gccgtttccc 17640 17700 gcctcccatt gccagtctca gcatcaccca ggcagctctg agacaagtct gtcccagttc agectectgt tecetetece cagtttaact ecceagtet ttgagaaaat ggatgaaaat 17760 agccattaga atgggactet catettteca teccegaate tggtatette tettttetet 17820 17880 ctcctgttac agagcaatca tgtccttcct tagggtcagc gctcttcctt aggccatacc 17940 ctctttgccc ccttcacacg cactggcccc acttcctcac ccccttcatt tattctcttt

cccaccccag	tgcagcttct	acccgtcacc	cactccaact	gctctgccaa	gatcatccaa	18000
tggttacttg	actcagactt	taataagcac	atgcatcatc	tggggatgtt	gctaaaatgc	18060
agatgagggc	tcagagggcc	tggggtgggg	cctgagagtt	tgcattcctt	cacactctca	18120
	atgctgctgg					18180
ctttcctgga	aacactctct	tggttgtcct	cctgcctcat	gggctgttct	ttctcagtct	18240
cctttgctgg	ctgcgtgtcc	tcatctgccc	tactctagag	gctggcgtgc	ccttgggtcc	18300
tcttctcttc	cgtctctaca	ttttcatcct	taggtcagtg	cttcttcact	tgggctgcat	18360
attaggatca	cctttgggag	cttttcaaac	tggatgttca	ggaagcacca	ggccagctct	18420
ccaacttttt	tttttttt	ttttttttg	agaaggagtc	tcgctccgtc	ccccatgctg	18480
gagtgcagtg	gcgtgatcta	agctcactgc	aacctctgcc	tcccaggttc	aagtgattct	18540
cctgcctcat	cctcccaagt	agctgggact	acaggcacgt	accaccacac	ccaggtgatt	18600
	tttttttt					18660
tcttgaactc	ctgacctcaa	gtgatccacc	caccttggcc	tcccaaagtg	ctgggattac	18720
aggcgtgagc	caccacgccc	aatacccaac	tattaataaa	accaaatctc	tagagctgag	18780
	ctgtgttttt					18840
	gctctaggtg					18900
	gagtgttctg					18960
tagcccctag	ccacagccac	atatggctac	tgaggtctta	agatgaatga	ctagttctta	19020
gtgtgactga	gacccactaa	agaactataa	ctgaaatgat	aattttaata	tatttttggg	19080
	caggggtctc					19140
	acctcggcct					19200
	tataaattta					19260
	taatacatac					19320
	tattccagcc					19380
	agtgcagtgg					19440
	ctgcctcagc					19500
	tttgtatttt					19560
	acctcaggta					19620
	ccctattgct					19680
	ttcctctcac					19740
tggaatagct	tctgggaccc	acagccccca	cctggtctct	gctgctttac	ttgtggaggt	19800
	ctccagggct					19860
	ctgtgggctg					19920
	ctagctcacc					19980
	gagaggtgtg					20040
	ccttttctt					20100
gtctcgccct	gttgcccagg	ctggagtgca	gtggtgcgat	ctcagctcac	tgcaacctct	20160
gcctcctggg	ttcaagtgat	tctcctgcct	cagcctccca	agtagctgag	atttcacttg	20220
	cacctggcta					20280
	atgttggcca					20340
	aaagtgctgg					20400
	aacaaagctc					20460
	aacctgcctg					20520
					gggaggggta	20580
	aatgggtggc					20640
	tttcccaggt					20700
	taaaggtcac					20760
	tcccctgccc					20820
	ctctccctgc					20880
	gaagttgtgc					20940
	gtgctccagt	cccagcgcgt	ggcccagctc	atgcacagcc	accaggaaga	21000
ggtcgttccc						21010

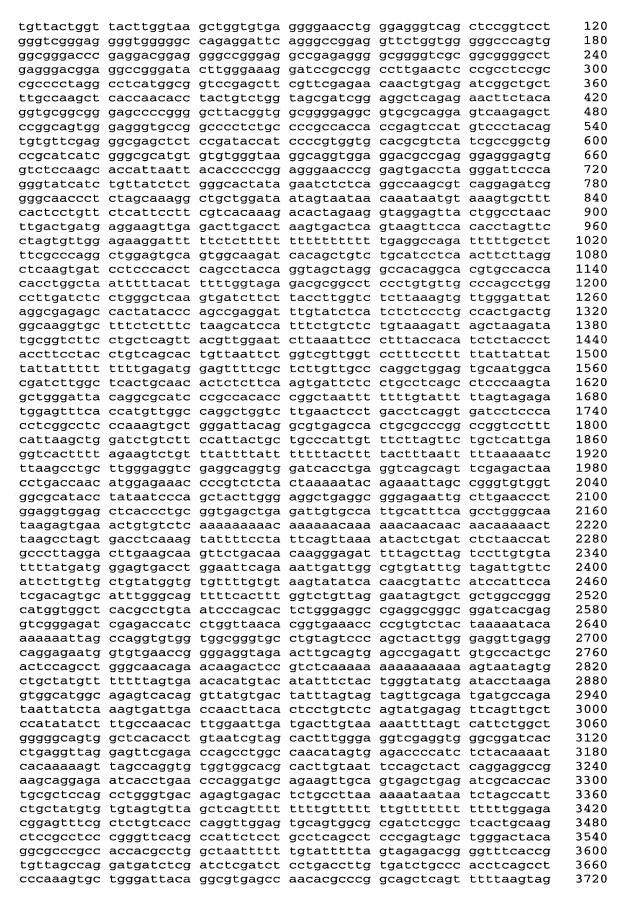
```
<210> 2145
```

<sup>&</sup>lt;211> 21024

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 2145



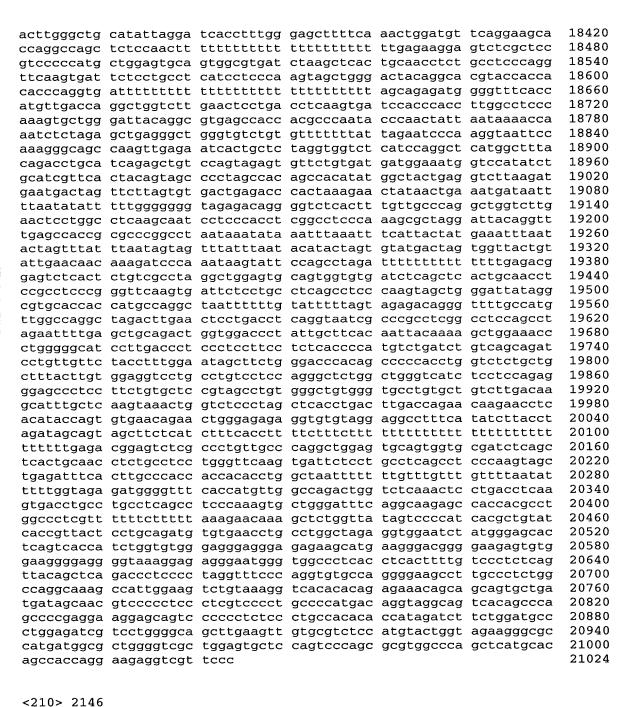
caaaatatac agctaatgcc aagagctcag cttccctccc agttggtgat ggtgaagtag 3780 3840 gcaggattta ttgggattcc tgggtggtct ctggcctgcc ctgggtgttt tccagatcag 3900 3960 tgagtggtat cctcagcccc tagggctcag caggcatctt gtgtattcac cctctaattt 4020 gggtttctcc agggaacagg cacggtctcc tggtacccaa caataccacc gaccaggagc 4080 tgcaacacat tcgcaacagc ctcccagaca cagtgcagat taggcgggtg gaggagcggc 4140 tctcagcctt gggcaatgtc accacctgca atgactacgt ggccttggtc cacccagact 4200 tggacagggt gaggcagccc aacttgaccc aagagtcaca gggccatcct agtcagtggt 4260 tagccactgt tettteccaa caggcagcaa ttaggggtet eteetgtggt ttttetatat 4320 gggctcttga gtttcaggta ctcattggaa tagtgataac agaggcctta tcaagtgtca 4380 gaaagaagct ggggagggta tgaatccttc atgattgggg agattgaacc atccagtcct 4440 gcatcctggg ccaggatagg tgattgactg ttgaactttt gactgtgggt gagaggggaa 4500 agaagtgata ttgagaccag cctccagctg ttcagggcat gcatgaatat taggggcttc acagetgeee ttgaetetge tetaagetgt aetteeteet ttetetgggt gaggetttea 4560 tatgaggtac agaggagaaa tgaggggctc agggagccaa ggcctggatg cttctgggca 4620 tggagaacct tggttctggg gctgtaagtt ctgagccctg aacacaatat ctttgattga 4680 caggagacag aagaaattct ggcagatgtg ctcaaggtgg aagtcttcag acagacagtg 4740 gccgaccagg tgctagtagg aagctactgt gtcttcagca atcagggagg gctggtgcat 4800 4860 cccaagactt caattgaaga ccaggatgag ctgtcctctc ttcttcaagt cccccttgtg 4920 gtaagcattc ctgtcctctg aaccccgtct cccgaggcag atcctttcgc ctagtgtttg ggagtctggg tcattacctg ccacagtttg ggactggggc tgcaggtcag ggaggagcag 4980 5040 ggtttgggga gagtcttcat tgaggaggga gagaatttgg tgccgtgact cacattgagc 5100 ccatcccttg gcaggcgggg actgtgaacc gaggcagtga ggtgattgct gctgggatgg 5160 tggtgaatga ctggtgtgcc ttctgtggcc tggacacaac cagcacagag ctgtcagtgg tggagagtgt cttcaagctg aatgaagccc agcctagcac cattgccacc agcatgcggg 5220 attccctcat tgacaggtac ctggggcctc tcctttcttc tgctcagggt tgggggttaa 5280 cttgcatttt gagagtatgg ggaaaagatg tcatctagaa tgggagccta ccagtttgtt 5340 ctggtagctt ctcgagtgtg agagcatatc tgtacactgc tgagcagata agagccagca 5400 tattcaaaaa atatttcttg agcatctgct aatcctcatc tttgtggttt ttcagggcta 5460 ggatactaga gcagtagctg cttgagcagc ttgtcagagc tggtcccggg atgagggctg 5520 aggcaggcac ctcacttgag agtgaggtgg gctctgtgaa acagctactg accgtgcgct 5580 ttcctttctc ttcagcctca cctgagtcac cttccaagtt gttccatggg ctcctggctc 5640 tggactgtgg ccaaccttct ccacattccg cccaatctgt accggatgct ggcagggagg 5700 5760 tggcagagag ctcactggga ctgaggggct gggcacccaa cccttttcca cctgtgctta tegeetggat etateattae tgeaaaaace tgetetgttg tgetggetgg eaggeeetgt 5820 ggctgctggc tgagggttct gctgtcctgt gccaccccat taaagtgcag ttccctccgg 5880 gccattctga atgtgatgtt tggggccctc agcctgtgta caatccctgc actctccagt 5940 6000 tgttccagca ttctgggaag atagggtggg atgaacacaa cacaccca acccagttca ccacctccac acacgccatt cccttctcct ctaccatcag gatgtgaggc ttcatcctgg 6060 ggcaagaaac actctccact acagttctcc ttttttcttt tttcttttg aggcagtgtc 6120 6180 tecetetgte acceaggetg gagtgttgtg acgeaaggat ggeteactgt ageettgace 6240 tgttgggctc aagcgatcct ctcgcctcgt ttattttttt gtagaaacga agtcactgtg 6300 ttgcccaggc tggtttatac tcctgaactc aagcgaccca ccgcctcggc ctcccaaagt 6360 gttgggatta caggcgtgag ccacggcgcc cggtctagtt ctcacagttt tcacccgact tetgegeegg tettetetgg cettgaaagg cagagagtee gtteegattt teeeetgage 6420 tgggcaagtc ccctgtgaga gctctggggc atctggcttc ggggcattct ttgactaagg 6480 tggatggagg ttgcaggtct tttcctgggt gggcgtgggg cggggcagcg ggttcccagc 6540 gtcctcctgg cctgggcgtc ttggaggctg ttggggtgca ttccgtcccc ttgcgcgggg 6600 cggggccttg aggcgctggg gcgggattgg cgggggacgg tcgcggagcc ccgcccgaa 6660 gcacagggtc gagtcccttc tttccgctcc aacgcacgga gggtgaggtt ggtacgcggt 6720 ggtggcgtca cggcgccagc tcctcccgac gccgaggtgg gttccgggag acccgcgggt 6780 ctggctgcga gaggtgaggg cagagccggg gcggggccct agcggggtgt cccggcgacc 6840 6900 cagacettaa agggettete ttettgeaga eeatggggge teagetaage ggeggeegeg 6960 gegeeeegga geetgegeaa acceageeee ageeeeagee ceageetgeg gegeeggagg 7020 gcccggaaca gccccggcat ccgccccagc cccagcccca gccccagccc cagccccagc 7080 cccagcccag cccgagccca gcccgtgggg gccgctggac gacgtgcgct tcctcatcgc ctgcacttcc tggtactgac ggcgtcctcc gcaggatgtc gcccgtctgt ccgccgtccc 7140 7200 etgtggttet tgeetgeett gteteetete eccaegteee tgegtetett acaececete 7260 ccacccgagg ctccccagag atagcagaga attcgaagag gtcgccgggg actggaaaga agtcccggca gggccgcctt cgcagtctac accccagcct gcttcccagc ctacacccag 7320 acccagctca gaccttcgtg accaccccat ccctttctcc ggctggctgg gtcgggggca 7380

7440 tecetetetg tegetggett ceagaggeag gacaggeete etggtaagee egcaaagttg ctgacctcct gacttcgtct gccttttatt aatatctgta ttgctgataa ccgtgctctt 7500 gactatgtgt cccaggtcat gtcccaggtc atggagaagc ccgtgccaca gtgaccctcc 7560 ccatactcct gggggggctg ctctccatcc tggatcgtaa ggaggcatca tcaggctgtg 7620 7680 ttcctggaac cccaataacc ctgggccccc agggccagcc tgttgtagag ggaggctatc 7740 tgaccgccgg tctggcagag gagatgggtg ggcagctccc agacacccca aaggacccgg 7800 ttctcttccc agagcgtcct aaggttactc ttggaacctg atctttgttc cctcatccca 7860 gggaaatgac acactctgta tttctgtttt atttagaaat gatttaaaaa acattataca 7920 aaggctgatc agtttaaaat gtgactgaca ctgaaatgct gtgatgtccc ccaggctgag 7980 gggaagctag gctctggggc ccccagtgct ttgcccctct gtctgccctg tcctggggtg 8040 atggacaaac agatgaccac aggcaggaga atctgagatt ggaagcctct aggctgagcc 8100 ctctgggcct ggcccacat ccctcacctc tgcagcctgg gctgcctgcc tccatctcct 8160 gttcattctc agctggcctg ccaggagcca atggggagcc tggcgggagg cgggggtgcc tagagettte aagaagtgag ageaceaace tgaggagtgg acagggaeca ggaagtgggg 8220 8280 aggggtccac agatggggac acaagaccca gccagcccac tggatggccc gggcaagtaa 8340 caacctctct gtgcttcatc tgagggcacg gtgagagtta ccgtcggcct cccagggcct 8400 8460 aacacgagtt tcatgtgagt ggacaggtgt gagctaataa agtgctttgc aaagtataaa acactgtaca aacctatgaa tcactaatat ctccgcagtt gttccctgcc tgtcccaggg 8520 agcctgccct tggccaaaat gagaaaaaac aaggatgatg acaggggaca cagcggaccc 8580 acatgggcac ctctgggaca agagattttg cttgagacag ctcccagggc agcaggagtc 8640 cctgtctgtg ctacagggta agccgaccc aatcccagag accacagggt cgggggcaag 8700 8760 gcccatgcag gctcagtgag caggggtggc atccgagacc cggccagcac gctggagact 8820 gcctgacacc tttttggctt tggcagagag ccagtgggca ttgatgaacc cattggcctt gtctagggct cctcagtgac aagcagggct gcctccgccg tactgtggag caaggcaggc 8880 caagccctag gaactcctgc tggagacagt gaagggcggg ccagtgaagg tcaaaaaggg 8940 9000 agccccctca gcttggggct gctaccggta ggggtgtcct tctaagagca gtgtgggaag 9060 atgggcccag tgagcgaggt cagcaagggc caagctctgg gaaaacactg cttccagccg agagattgag tcggcctcag agtagctgga gtcggcctca gagtagtggg ggcactgagc 9120 9180 acttcagacg ccctggtccc cttccgaagg actcccaggc tctgccagtg ttggccctgc 9240 agccatctct gcctcaccta actggtgagg ctgagctcca ggctgcaagt gacagactgg 9300 agcaaagctg gggacagtga caatagaggg gagtggagga cggtcacaaa ctcggatctt cctccagaaa tggggtcagc ttctgcccca gctctgtagc cataggagca gagctcagct 9360 actggggtgt ctgggcgcta gagtggcctt agcagcacct tggtccttgt cgcctggggg 9420 agggccgcta tgctggcctc atcaccaaga cagtcacctc tagttcacct aaagcctcaa 9480 9540 gcagcctttg caaaatggga cagtagtgac aggacattta aatattcacg atgtgacagc 9600 tgggtccttg tcagacccag ctgggccaca gccctgcctg cagcatgtga ccctaaatcc tgggtctccg aagagaccct gacaagtgga gcaggtttcc tgagggatct gccgtctgcc 9660 9720 agcagggaaa cccaggcttg ttgctcactg tgtcagaagc aggggtcctg tagccttgga 9780 ggacagtggg gtgggggtag ggggacatct gaccagcagg tgttggcaaa aggggaccag 9840 gactggtggt atctcccgga tgggggatga gagctagtgc tggcttccca cagagggtgc 9900 tgggttccag ccaggagtgg agctgtggta cctcatggac accacaggat gccgtgacca 9960 caggggctcc tcctggcatg gtccctgcct ccggatggag cctggcctat tcccttaagt agggagtagt ttgcccagga cagaaggctg gcagctgggt gccagacacc caccctgggg 10020 cacageeecc ataatteeet geeecaeget cageetagge caatgeaeee accaetteag 10080 10140 ctgtacgacc ccagcctagg gccctgctgg ccctggtgag cactggccag agctgcccct 10200 cagaccctgg tgaggaaggg cctggctggc cagaccaagt ggatagagag ggctctgggc 10260 tgctcacacc cattcctgga ctggccgctt atagtaggtg acaggctgag ggcctgtctt 10320 gttcttgaac tggaagatgg tgtagaccag caccaggatg cagagggaca ggatgcaggg 10380 qatqaccacq gccacqgcqt tcacqgaqcc cggcacatcg ttgatggtca ccatgatgtc cacgtcgtcc tggggcagcc gccgctcctt ccgccgctcc acctccttct ggttgcagcc 10440 catccagtca cgcaggatgt tgcgcgggta gcctggctcc acgctcagtt tctggttgtc 10500 aaacttccag tagtcccggc ccttgtagaa ataggtgtaa tctgcagaaa tacagcccag 10560 10620 catcaccact cccagacact tccggcacct gctctggggc agtgtgaaaa ggagggcaca ggcactgtgg caagggaggc aaggtgggca cacctggagg ttttggggtgc agtgcttggc 10680 10740 tgagtcatgg agtaagaagc tgcagagggg gacacccggg acctggagtg gtccgcctgt catcctacgg gtgctaggaa accagagggg cttcagggag aactgggaca tggttcactt 10800 10860 tgtgctgccc agacaggacc ccttgcacgc aagcctgggt cacagctctg tcacactgtg 10920 cgcacaggtc ccccttgccc cgctcatgtg ggctccatta agcctcagcc tggctcctgc ttgagccaag ggaggcaggg agcaagattt caccttgtgt tgacagcaag acctctctgc 10980 aattatggat ttttttggct tggcacacat cacttcacaa cacagatgca ggacctttgg 11040

gagccttctg ggagagaggc tgggcagccc tgccaatcac tccctgggca accaccccag ggctcgagca acagcctgag cggcccagcc agtgggcaaa gcagcttgct taggccgtcc 11160 tcattggctg gcttcccacc gtggctaggg ctttcattgg tctcggtcct tgatgtcacc 11220 tgtctctgag gctccccaaa aagggagatc ttgtgcgtaa agcatcaggt atacaagaca 11280 gccaacaaat agcagctgtg gccattggct ttctcagcag tgaagcctcc tcagagactc 11340 cttcccagcc atctctaaca cggccccctc tagctcgttg ctctctccca gcatttattt 11400 11460 ccttttttt ttttttaag acaaggtctc actccattgc ctaggctgga gtacagtggt gcagttgtaa ctcactgcag cctcaaactc ctggtcttaa gcaatcctct ggcctcagcc 11520 tcccaagtag ctgggactac aggcacatgt caccacgccc agctaatttt tgtattttt 11640 ttttgtagag atggaatctc actatgttac tcaggctggt ctcgaactcc tggcctcaag 11700 tgatcctccc acctcagcct cccaaagtgc tgggagtctt tcccttatag cgtctgttgc catcttgctt tatgccccta gacttggacg tctgcaagtc ctgttgactg ctacgtcccc 11760 agctcccacc acacaagctg tctattatta tggagtgagt gaatgaatcc tgtcaatcca 11820 11880 cataaactga aacccatgat gatgacaatg atgatgacga tagcagctaa aatatacagc 11940 atggatggtg tgctaggcat tatttctaag tatgctacat aatttgtctt ctttaatcct 12000 cacaaaacca ttatataaag gtaggtactg ttattatcat tttataaatg agaaaacaga 12060 aaacttatta aagatttgct cagattcata gtgagtggta ctatggtggt tacgaaccca gccagtccag ctctagagtc tgtgtttttg accatatcaa tggagatcta tttaacaaac 12120 actcctggag gcccactctg catctggcca ggctagcagc tcctcctgag aagctcctag 12180 12240 gctggtgggg agacaggctg agtgtctgat ggcagtcgtg ggggctggtg gccagcatgg 12300 cttctaggag gagttcagga aacataaaaa gtttctctct tgatgcagtg gctcacactt 12360 gtaatcccag ggctttggga ggctgaggtg ggaggattgc ttgaggccag gagtttgaga 12420 ccagcctggc caacatagtg aaaccctgtt gctacaaaaa aatgtaaatt agccaggcac agtggcatgt gcctataatc ccaactactc gggaggctga tgaggcagga ggatcatttg 12480 agactaggag gttgaggctg cagtgagcta tgatcatgcc acagcattcc agcctaggcg 12540 acagagtgag accttatctc ttagaattta aaaaaaaatt ttttttgaag gttttctttc 12600 catcttcttg ccctcgagcc ctgtgaaaaa gtggctttga aacatgcatg cccatcattg 12660 12720 cttttcagat tgggtaactc aaggcgtccc tggagtacac tgaggataag tgtttgagaa atgctgtctg aaggaatgaa gtcagtctat gacaacgtct ctctgccgtg aatcattcct 12780 gcagatgaaa aagtgtgact tggcagctgg taagtgaatt aatggaccac gtgaacatgg 12840 gtagatatga ggcagttgtc tgccaccagg tgttttttca aacctggacg cccatgggca 12900 ctgagtatgc ccgtgggcac tggtgaggac cacataaaac cggctcccca tgcccaccct 12960 13020 ggcccggccc ttacgtacat ccttccttgc tgatgaaggc tccttgggga gcctgtggga 13080 tgcccttcca cacggtgatg ggcttagggt agccagggtc cgtggcccgc cgctcctcgc tgtagcgcca gtaccgctcg cctttgaaaa agtaggtctt gcccacaggt tcccagcgca 13140 gagctgtgtc aatgccttca cggggcaaac agctgcccag ctcccccagg ctgtgggggt 13200 acccaggete caccgteace teettaaaca eccaataett gteacetgtg gecaagagga 13260 13320 gcccaggatc agcttcccca gtcactcagt gccgtttgcc catcttcagg gtgtcaggtg 13380 aaaacagtct gatgccctca gccccttggc ccagttagag ttgggaaggg cacgaagcct 13440 gaggccagtc acagatcctg gacaacttgc ctctgctgcc tgggctccga gtcccaccct ctittgttca tgtgacttgc tcctctcc tctctggtga tctcagccac ttacatgact 13500 ttgcatatgc actaccactc cccaaacctg ctaccagtga cacccgactc tgaggctctc 13560 ccactggacc tgagcagcag agccagaaac cctgacctcc ctcggcctac cggcagctct 13620 13680 gcattggctg gctccccaga gctcctcatc tgcaccacag aggggctccc tcctcatcac cttctgcctc ccaggtcccc aacagggagt cctagcctca ctgttgaccc tctctttcct 13740 13800 totoctotca gtattcagcc acttotttt tttaagatgg agtttggctc ttgttgccca ggctggagtg caatggtgtg atctcagctc accacaacct ccacttcctg ggttcaagcg 13860 attctcctgc ctcagcctcc tgagtagcta ggattacagg cacgtgccac catgcttggc 13920 13980 tagtttttgt aattttagta gagacgtggt ttcaccatgt tggtcaggct ggtctcaaac tcctgacctc aggtgatctg ccagccttgg cctcccaaag tgctgggatt tcgggcgtga 14040 gccactgcgc ctggccgagt attcagccac ttctgaggcc ctctgactct cctggcagct gtcccctgcc cttcagctgc acggctcctc cctcatttgg gcctcatgag tggcgcgctc 14160 cagaaccacc tcagaaatgg ctgccctgcc cctgccatgt ctgtcacctc ctgccctctg 14220 gctctctgct gctcggaaac attccatgaa tttccagcct tggcctaatg gatcaagacc 14280 acattctggc ctggcagcca gggctcttca ggatttgcct ccaaatgacc tttctgggcc 14340 atttctcaca gctttccaag gcggggcctc cgtggccatc aggtgggcct tctaagccct 14400 14460 gtggccgtcc gtacacatcc cagccctgct cctttattca gccgttgtcc ctctggaatg 14520 ccttccttgc ttctcactat ctgtatctca cccatctgag gtctggcccg agtcaagata 14580 actgtcatga aacaacctag cacagtgctg ggtacagggt gggcacctta gctccctccc acaccctccc ccgacctccc cagcttgagt gacctcttcc ctctgggttc ttacagaact 14640 gacccgatgg cctcccatga ggtactgggt ggtcttcaat tgcttgtccc acactctact 14700

tcatgtggac gaagctggtc accccaccaa tctcggcaca tacagattct cagtctcact ttctgacttg atttgtcaga ggtcagtgtc tccgttagac tagaggggcc ctctgaggac 14820 14880 atctgcctcc caccccgcct cttccagttt agatgggaaa aaggaggtcc caagaccttg 14940 ggcagggaac tgtcccacag cacagtctac attacctttg aagaagacaa atctcccatc ggccctttca taggctgcgt cgatgcgggc aggcaggccc ttccagaact gctcgatctg catggggtag ccctcctgca ctcggttatt gcgcagacgc cagaaccagc gatcctggga 15060 ggaagcggga gagggggaga gaggtgtgtc aggccctgcc tccgaaccca gtgattgcag ctgtggggct taggtcccaa cagcccagcc ctccaccgag actgtccatt agctgcttct 15240 gacttttaaa gccctgggag gaagacagga tgctcctgta actgtcttca attcagcctc 15300 ctgctgactc ttgctgctgg gtggacaatg agacaaacag cagacaggcc tggtgtggaa 15360 aaggaggtgt gagggagccg gaaaggatga tgttggggcc tggagtggcc acatgggggc agtggagcgt cactaacatc agccagactg gtcctcggga cagtgggagg ctggggtggt 15420 cactgagect gggeegageg ecetecatga ggetggetee atccageagg geeaggatea 15480 tggaagccaa gtcatgggaa ttccctcgag acctgggcat gaattcacat tcctccattt 15540 15600 atagctgcat gacctaggcc tcacctgcaa gtgcaggtaa taatggagaa tcagatgaga gattctaggc aaaatgccca gaccagtacg gggcacacag tccatgttga gtaaatggca 15660 gctaaatagt ccgagtccag taaaaacgcc tcttgtaact ggtgcctcag tcttgggctg 15720 15780 gtacacaagc agtctaggca aggcctgtag cctccaggcc tcagttttct ttctttttt tttttttag atggagtete getetgteae eeaggetgga gtgeagtgge geaatetegg 15840 15900 ctcactgcaa gctccgcctc ccaggttcat gctattctcc tgcctcagcc tcctgagtag ctgggactac aggcgcccgc caccacaccc ggctaatttt ttatattttt agtagagatg 15960 gggtttcacc atgttagcca ggatggtctt gatctcctga ccttatgatc cgccctcctt 16020 ggcctcccaa agtgttggga ttgcaaggcg tgagccactg cgcccagcct ccaggcctca 16080 gttttcttat gtgtaaatgg ggatgataaa acccggacct gcctatgaac ggttcagttg 16140 gatcaaagta gaatgagtgc agaagaagaa gcatgatttg taaaagatgg tacaaaagct 16200 agtattttaa aaggtgtttt acaaagcact ttcacatcca ggtttttgac cttattttga 16260 ctttcatgtc tctgttaagt tgatctgaga tatacggagt cttaagaaag gccaggtgac 16320 ttgcctagag ccactcagtg agaagccaga ctggggctga ctcacgctgc ccgattcctg 16380 cgcagtgctc agtgcgtgct gggagaactc cacaagggga gcgaggcagc ctctttcacc 16440 atcctgtgtg atggagccac cctgcccaga tccccttcag agaagggctt gttgccccag 16500 tggccagcag tgtggccagc aggcagtttt caactgtcag cccctttggg gatgttccct 16560 gcttcagaga gctctcctca gtcactggat gcccttcctc atccagtgat tgaatgaggt 16620 16680 aggggttata atgttccaga tattttggac ccaacgtagg ctgagtgaca ggccaccgta gccccagagc tccctgcggg ggtggctgag gctgccatgg gcctctgttg ccacttaacc 16740 tctccctctt ccctgtcctg cttccttctc cccctcacaa atgttgattc tgaaagtact 16800 ctctaatcga aatcctgcat tccagacccc acctcagagt tcactccccg agagcccaac 16860 ctgcaacacg tcaagcagac tgccaccctg tcagtccatg gctgatggag gacagatgac 16920 16980 aagatatacc ctgggctgct gccagtagca gcccctcaag ccttggtagg gtctggagtc 17040 agactcagcc gccactgacc tagcccctac tccaagttga ccatcttcag agccgggtac 17100 tcactggatc ttcacacact ctttgttaga ggaatgactc ccccaggttt cggatggaga aactgaggtc ccaagaaggg tggtcacaga ccagaagcca gcttccagca ctttctccca gcgttaaccc caggggaggt gagggatcac ccatctttcc ccctcctct tgggaacagt 17220 tgattcaccc agcagcacta ggaagagacc ccatgccctg gccactgggc tagctcctgt 17280 ccaggcccca ttgtaatcga atcccaaatc aggagccttc cccagctcca tgatgtcggg 17400 gaggaggagg aaaggtcagg ggccagctgg gtggtgccaa tccattggcc ctaccttaaa 17460 gacaaacatc tcgccccgga agagggccac tgtgttgaag ttgccgtcac agatgttggg tttggtgcct ggtgtggatg gccggtcccc gagggggggc cgagggggcc tgggctggcg 17520 ctcgtgtttc ctctccgatg gtgagtggat cctgcggacg gggagtgtag ggagtggcct 17580 17640 tgtgggctcc agaggctcgg ctgggggtcc tggagagagg agctgcatct tagagagggg 17700 gcagccgttt cccgcctccc attgccagtc tcagcatcac ccaggcagct ctgagacaag 17760 tctgtcccag ttcagcctcc tgttccctct ccccagttta actcccccag tctttgagaa 17820 aatggatgaa aatagccatt agaatgggac tctcatcttt ccatccccga atctggtatc 17880 ttctcttttc tctctcctgt tacagagcaa tcatgtcctt ccttagggtc agcgctcttc cttaggccat accetettig ecceetteae acgeaetgge eccaetteet caceceette 17940 atttattctc tttcccaccc cagtgcagct tctacccgtc acccactcca actgctctgc 18000 18060 caagatcatc caatggttac ttgactcaga ctttaataag cacatgcatc atctggggat gttgctaaaa tgcagatgag ggctcagagg gcctggggtg gggcctgaga gtttgcattc 18120 cttcacactc tcaggtgatg ctgatgctgc tggtctgaag actacatttt gagcagcaag 18180 attcatagaa acactttcct ggaaacactc tcttggttgt cctcctgcct catgggctgt 18240 tettteteag teteetttge tggetgegtg teeteatetg ecetaeteta gaggetggeg 18300 tgcccttggg tcctcttctc ttccgtctct acattttcat ccttaggtca gtgcttcttc 18360

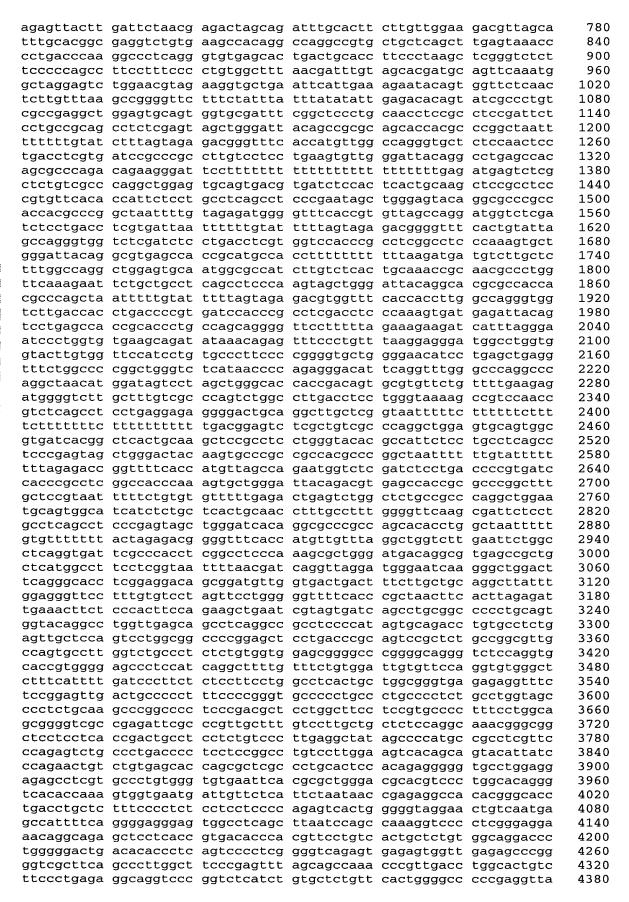
<211> 437



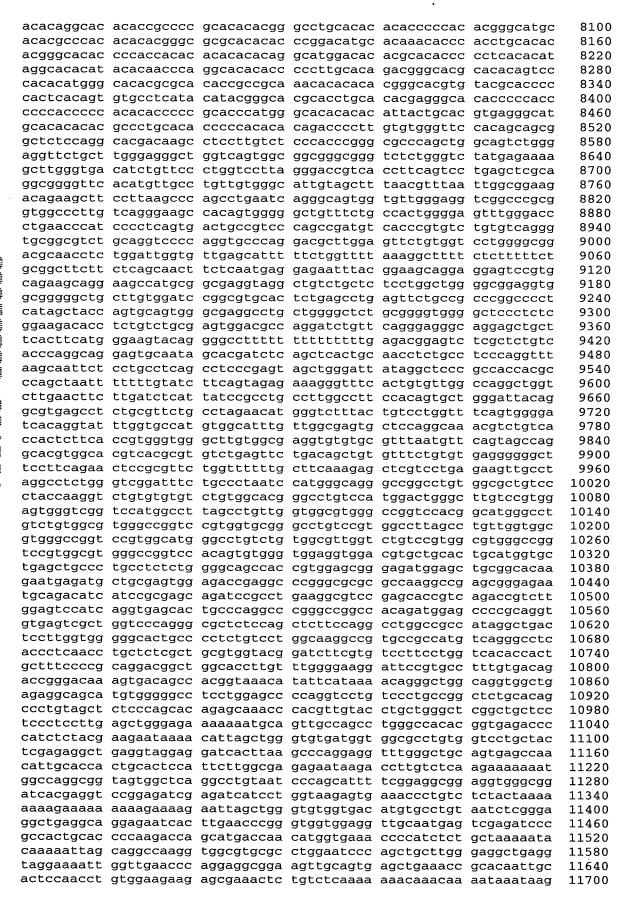
```
<212> DNA
<213> Homo sapiens
<400> 2146
                                                                       60
ggctctgggt gctttaagaa tgtctgggag ggtcgagcag ggattctgag gagagagggg
                                                                      120
tcatttaaac ctggaggaag atgttcaggg aaagcttcac aaaggtgaag ttgaagctca
gtcttgaagg atcagaagtt agtcaggaga acggattcag ggggcaggag aggaagggtg
                                                                      180
                                                                      240
ggggtggcat tcctggcgga tggaatgcaa taaacacagt ccagagacag gcagtttcat
tccacctggc tctggaacaa agcaggaggg gagggccgga gagagatgag gtcagccagg
                                                                      300
ctggaaagca gggcgcttaa tgccatacaa aggaatttgg atcagcttct tggctagtgg
                                                                      360
                                                                      420
ggggtttaag taggagtggg ggtggtgata caattaaatc actctggctg cagttgaggg
                                                                      437
aggattagag ggaacaa
```

```
<210> 2147
<211> 854
<212> DNA
<213> Homo sapiens
<400> 2147
ccaggccctg aaggatgggg aggttttgga cagagggagg agagagttag aaaaattttt
                                                                       60
ggtagagaga atcaggtgaa agagatgccc taaagaggac tgagtgggtc tgaggtgaat
                                                                      120
gagtgaggaa gagcagagta tgtggatacc cggaaacaca cacacaca catcatcatt
                                                                      180
atcatcatca tcattgtcgt cgtcatcatc ttgctgagtc atcatcatca tcatcatcat
                                                                      240
                                                                      300
tgtcgtcgtc atcatcttgc tgagtgtctc ttgaagtaca ggctgtgaca ggttgtgggc
                                                                      360
cattttcctg aactcaccac ttacccggga tagtaaacat gatacacatc aataaaggca
                                                                      420
gactttattg tgaatcacag cgcctggtgt atcctgaact ttgaggagtt atgggaggga
                                                                      480
cacgttgggg gaatgggaag ggcaccattc aggccaatta tggggaaacc cctggaggag
ggtgaatgcc gaaggaggaa ttgggggagt ccaggggctc caagttacca ctgtgacatt
                                                                      540
ttgagagaac ccggggcttt tgcagattct acaaaatgtg ggccaagttc atcctgtcca
                                                                      600
                                                                      660
agtgtgcagc agggcccttg gccccatca ctatcctggg gacagaagtt ggctgctgag
tgagtgatag aggccgtgcg agaggcacat cgtggaagcc aaccagcacc cacatccttg
                                                                      720
                                                                      780
cccaccetgg acccetttce agcettttcc tgageccetg ettectcagt ceteceetet
                                                                      840
ctecagcace tgcagcetgg etgeetttee gtetetgget gegetettte tecageeteg
                                                                      854
gtctggccgc actt
<210> 2148
<211> 437
<212> DNA
<213> Homo sapiens
<400> 2148
                                                                       60
ggctctgggt gctttaagaa tgtctgggag ggtcgagcag ggattctgag gagagagggg
tcatttaaac ctggaggaag atgttcaggg aaagcttcac aaaggtgaag ttgaagctca
                                                                      120
gtcttgaagg atcagaagtt agtcaggaga acggattcag ggggcaggag aggaagggtg
                                                                      180
ggggtggcat tcctggcgga tggaatgcaa taaacacagt ccagagacag gcagtttcat
                                                                      240
                                                                      300
tecacetgge tetggaacaa ageaggaggg gagggeegga gagagatgag gteageeagg
ctggaaagca gggcgcttaa tgccatacaa aggaatttgg atcagcttct tggctagtgg
                                                                      360
                                                                      420
ggggtttaag taggagtggg ggtggtgata caattaaatc actctggctg cagttgaggg
                                                                      437
aggattagag ggaacaa
<210> 2149
<211> 854
<212> DNA
<213> Homo sapiens
<400> 2149
                                                                       60
ccaggccctg aaggatgggg aggttttgga cagagggagg agagagttag aaaaattttt
ggtagagaga atcaggtgaa agagatgccc taaagaggac tgagtgggtc tgaggtgaat
                                                                      120
gagtgaggaa gagcagagta tgtggatacc cggaaacaca cacacacac catcatcatt
                                                                      180
                                                                      240
atcatcatca tcattgtcgt cgtcatcatc ttgctgagtc atcatcatca tcatcatcat
tgtcgtcgtc atcatcttgc tgagtgtctc ttgaagtaca ggctgtgaca ggttgtgggc
                                                                      300
cattttcctg aactcaccac ttacccggga tagtaaacat gatacacatc aataaaggca
                                                                      360
gactttattg tgaatcacag cgcctggtgt atcctgaact ttgaggagtt atgggaggga
                                                                      420
cacgttgggg gaatgggaag ggcaccattc aggccaatta tggggaaacc cctggaggag
                                                                      480
                                                                      540
ggtgaatgcc gaaggaggaa ttgggggagt ccaggggctc caagttacca ctgtgacatt
ttgagagaac ccggggcttt tgcagattct acaaaatgtg ggccaagttc atcctgtcca
                                                                      600
agtgtgcagc agggcccttg gccccatca ctatcctggg gacagaagtt ggctgctgag
                                                                      660
tgagtgatag aggccgtgcg agaggcacat cgtggaagcc aaccagcacc cacatccttg
                                                                      720
cccaccctgg acccctttcc agccttttcc tgagcccctg cttcctcagt cctcccctct
                                                                      780
ctccagcacc tgcagcctgg ctgcctttcc gtctctggct gcgctctttc tccagcctcg
                                                                      840
```

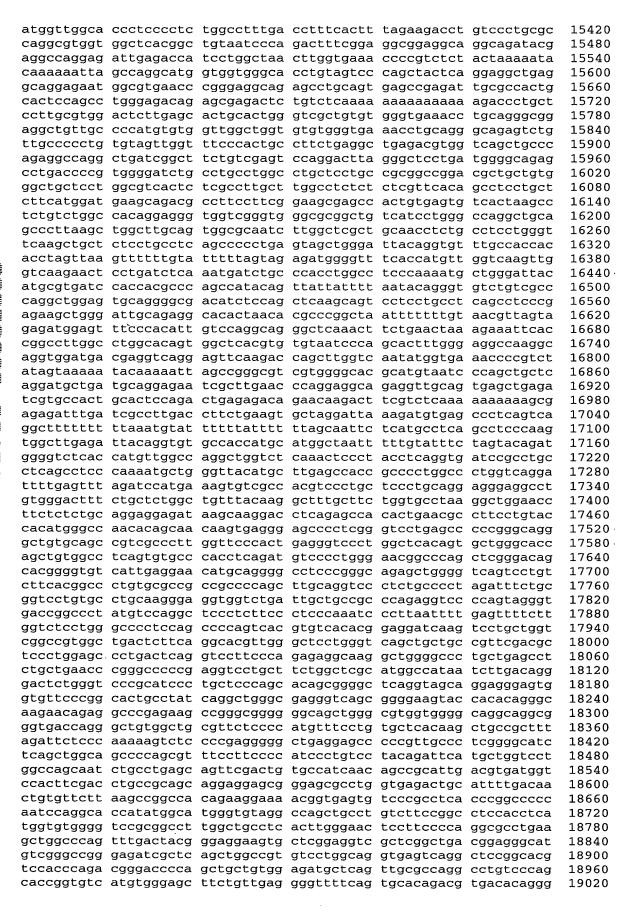
gtctggccgc	actt					854
<210> 2150 <211> 670 <212> DNA <213> Homo	sapiens					
agagggcaga cagattgatt gaaccaacac cctgagcgtg aatgggtcct ggtcagtact ctgggaagct ttgttgcgag agaaaagcaa	gacagaggca agaatcacat ctccagagcc agacagcaca cacgcttata cgtaaggcag ttgttcagag gggtgggcct ttgagggtgt agaccagact gaaggaataa	tctaaacatg ttgtaggtcc gtcttcttag tggcttctga gagaatcttc gcactgaggg tgtttgtggg actctggca agttggcaaa	ataaggtata caagggtgcc gagaccctag gctggccagg ttgaacttgg tgggaaggct cctcaggttc tgccatgccc ttggaaccca	gccagcagga tatgacacca tgcagcagcg ctacttcatg agttgggtct catggagctg aggactgaat ttttttgta actacccagt	ggcagattcc atgggaatct ctggcctcct catttggttt gtggtccatt gattctgctg gagagtcctc ctaagagggt ttatttattt	60 120 180 240 300 360 420 480 540 600 660 670
<210> 2151 <211> 670 <212> DNA <213> Homo	sapiens					
agagggcaga cagattgatt gaaccaacac cctgagcgtg aatgggtcct ggtcagtact ctgggaagct ttgttgcgag agaaaagcaa	gacagaggca agaatcacat ctccagagcc agacagcaca cacgcttata cgtaaggcag ttgttcagag gggtgggcct ttgagggtgt agaccagact gaaggaataa	tctaaacatg ttgtaggtcc gtcttcttag tggcttctga gagaatcttc gcactgaggg tgtttgtggg actctggca agttggcaaa	ataaggtata caagggtgcc gagaccctag gctggccagg ttgaacttgg tgggaaggct cctcaggttc tgccatgccc ttggaaccca	gccagcagga tatgacacca tgcagcagcg ctacttcatg agttgggtct catggagctg aggactgaat ttttttgta actacccagt	ggcagattcc atgggaatct ctggcctcct catttggttt gtggtccatt gattctgctg gagagtcctc ctaagagggt ttatttattt	60 120 180 240 300 360 420 480 540 600 660 670
<210> 2152 <211> 24413 <212> DNA <213> Homo						
cccggcggcg ggccccaagg gagggcgcg ttcgaccca gagtgcggcg cctggcctt cggagcaccc cgtttgcacc gctcataggt	gcgcgtggag gtagcggcgg gtgaaggcgc gggaccgcgg ccggcctgga gggcggggcg	cggcggtgcg ggggccgccg gttgggagac gcgcgccgcc gggcgggcgg gctgctgtcg ccgtctcgcg tcaggagcgg agggtctggg tgccgcctcc	agcatgtcgt ccgcctttgc cggccggcgc aaggcggcgc gcgggcggga gcagccactt tgccgggagg gtcaggtgcg gctggccgtg acgtggcaca	ggctcttcgg cgcccgcgca ccaaggacaa gcgagctgga cgggccgggg cccgggcgag atcggactct aaaagcggtg gtcttcagtt ggccaaggcg	cattaacaag gcccggggcc atggagcaac gcactcgcgt aagcgggagc actgcgccc ttccgtcacc cggaggtggc accgccgagc	60 120 180 240 300 360 420 480 540 600 660 720



4440 gctaccaagg cgcttcctga aatgtgacgc tgatgcccgt cagcccagtt cgtgcctaac 4500 cacaggeeca ageagaeeca ececaaeaee aaagtgtege tgeetetgte taaatgeaae 4560 gagtgctccc cacggcactt ccccctgcgt cagtcacctc caaaaattac acctgagctg agaacagacg ctgggctcta gttagtgacg tgtttgctgc agttgactct gaaggcttaa 4620 4680 aaaagtgaga cgggctgcgg gaggaagaga gacgggaaca acgcaccaac ccaggagcat cgggggtccc tgcctacttt acacgtcttt ctgtgttaga ataatttttt tttttttgag 4740 acggactett getgtetece eegetggagt geattgette gatetetget eactgeaage 4800 4860 tetgeetece aggiteaege catteteetg ceteageete etgagtaget aggaetaeaa 4920 gtgcccgccg ccacgcccgg ctaatttttt gtatttttag tagagacggg gtttcactgt gttaaccagg atggtcttga tctcctgacc tcatgatcca cccgcctcag cctcccaaag 4980 tgctgggatt acaggcgtga gccaccacgc cctgctagaa taatttttt ttagagacgg 5040 agttgcgctc tgttgccccg gctggagtgc ggtggtgcga tctcggctcg ctgcaagctc 5100 tgcctcccag gttccagcaa ttctccagcc ttggcctccc cagtagctga gatcacaggc 5160 5220 gtgcaccacc acacccagct tttttttgtg tttttagtgg agacaggatt tcgccatgtt 5280 ggccaggttg gagattttat ttttcttaag tctcactctg tccagctgga gtgcagcagt 5340 gtgatétggg tgactgtagc ctctgcctcc ggggttcaag ccatcctccc acctgagcct 5400 cagagttgct gggattacag gcgtgaacca ccgcttccca ctaggttttt gtatttttag 5460 tagaggttgg gtttcaccat gttggccagg ctttggtatc cgtgtatcct acacctgctc teegtgeeae atgegeeege aggttaegee aaggaggeee tgaatetgge geagatgeag 5520 5580 gagcagacgc tgcagttgga gcaacagtcc aagctcaaag tgagtggggc cggtgtgggc 5640 gaggaggccg gggcgcacat ggggttcagg cgtggagatt ggtggggctg ctactggtgg 5700 gtagggccag gggcgtgtac atgggcagca gtggggccag ggccgagctt gggcgcctca 5760 tttcacagag ggaaacaagg ggaggtgaga gacgctgccg cagagccgcc cgagagggag 5820 ggtcagtgtt ggtgagggcg tctggtcgtc ctgagggagg gccggtgttg gtgagggcat 5880 ctggtcgtcc tgagggaggg ggtcttcttc acattctcac ctcatttctt ttcactcagc aggatttttt attttatttt attttatttt attttatttt attttattta ttttgaaacg 5940 6000 gagteteact ettgeetagg etggagtgea atggegeaat eteggeteae tgeaacetee gcctcccggg ttcaagcgat tcatctgcct cagcctctgg agtagctggg attacaggca 6060 6120 cgcgccacca cgcctggcta atgttgtatt ttagtagaga cggggtttct ccatgttggt 6180 caggetggte tetaacteec gaceteaggt gatecacecg ceteggeete teaaactget gggattacag gcacgcgcca ccacgcctgg cctattttat tttattttga gacagagtgt 6240 cactetytee eccaytetyg cytycaatyy tttyatetey geteactyca acctecacet 6300 cccgggttca acctcctgcc tcagccttcc gagcagctgg gactacagga gcctgccacc 6360 acatctggcg aatttttgta tttttagtag agaagggggt tcagcatgtt gtccaggttg 6420 6480 gtottgaact cotgacotca ggtgatocag coactttggo otcacaaagt gotgggatta 6540 taggcaagag cgatggcgcc cggcccactc agcaggattc ctagaatggg cacgagctct gccctcatca cagtccaaaa gtgagcacct gcctggagct gcccagaaac agccttgtgg 6600 6660 ggtggggttg gtgtctgacc tccctccccg ggggccttcg caggcttctc tgctggtgct tctgtgcctg tgggtctgga ttcctccagg gcctgatcct gggtgcagat gcagctggaa 6720 gccctgaacc tgctgcacac actagtctgg gcacggagtc tctgccgtgc cggagctgtg 6780 cagacacagg agcggctgtc aggcagtgcc agccctgagc aagtgccagc tggtgagtgc 6840 tgtgctctgc aggagtatga ggccgccgtg gagcagctca agagcgagca gatccgggcg 6900 caggctgagg agaggaggaa gaccctgagc gaggagaccc ggcagcacca ggccgtaaga 6960 gcgcaagagg ccgcgaggga ggccgccgg ctgcggggag cggcctgggg caggactggg 7020 agctgggtgt ggtcccgggg cactctggag tcagccatta gagctgccct cggaacggcc 7080 ttgcacaaac gcctaagacc tgtaaggtcc ctcactgctg agccggacgg gaggtccccg 7140 7200 cgcctcccca cgtttgtgtg aggctgatgg cgcgtcggag tccccggcgc tccgcccagt cggcccagac tgcagctccc ggctgagatg tgtctttgcc gccctcttct cccccagagg 7260 gcccagtatc aagacaagct ggcccggcag cgctacgagg accaactgaa gcagcaggtg 7320 agctcagcct cccctgcgag gcgcctgcgt ccctgagaac gtaggtggct ttgtgggacc 7380 7440 agtcagtggg tcagaggcca cggggcaaga acgatggggt tgctgacggt gggtgctaga 7500 gcaggggaaa ctactcggac agacacgcac cagcacacgt gtacaggcac acatgcagat 7560 gtgtgcacac atgtacacgg agacacaggc acctgcccac acagacacac actcctcgca cacacactcc cggcagacag gcacacacac ccctgcacac atgggcacac acacacccct 7620 gcacacagg gcccacacac tcccctgcac acatggggaa acatgggccc acacacac 7680 acccctgtgc gcacacaccc ctacacaggg gcatggacag acacccgcaa acacaccccc 7740 acacaacacg ggcacgcaca cacacacccc gccacaacac aggcacacat acccctgcac 7800 acaggcctgc acatacaccc ccacacaggg gcatgctcac acagcccgca cacacacagg 7860 tatgcagaca cacccaaaca cacatgggtc ctcaggcaca cactcccgca tggggcatgc 7920 7980 acgcacctcc cacacaccc cgatcacaca taggcatgca cacccctctg cacacatggg 8040 ggcttacaca ccccccgca cacgtgggcc cgctcacaca gcccacacac ataccccttc

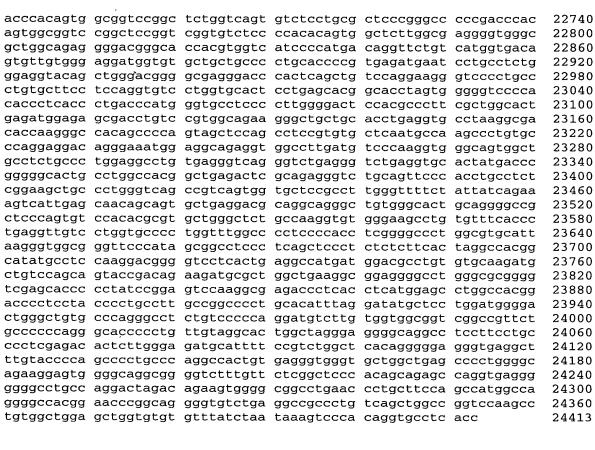


ccaggcctgg tggctcactg gtgtaatccc agcactttgg gaggccaaga cgggtggatc acttgaggtc agaagttcat gaccagcctg gccaacatgg tgaaaaccca tctctactaa 11820 aaatacaaaa attggccggg cctcgtggca caggtctgta ttagctgagt gtggtgacct 11880 gagcctgtaa tcccagtcac tcgggaggct gaggcaggag aactgcttga acctggaagg 11940 cggaggttgc agtgagccaa gatggcacca ttgcactcca gcctggccac agaacaaaac 12000 cctttctcta aaaacaaagt caagggcgca ttaagcagct ccttcatgtc ctcaggtgac accgtctcac caacatggca acaccacctg caacattcac cgtcacgctg accaggccac 12120 eggeaggtge tgeagteaca geagtgggeg eeggeaceae ggeagageaa gtgeeeaete 12180 agtgccgggc acctactgtg tgctgggcgg ggtgggggga cggaggacac agccatgtgc 12240 gacctggggc gccaccacag caggccagag cctgggcaca aaagagcgag gctttaaacg 12300 agagaagaat ctgaacttca aactctcagg gttttattcc gaataacgaa agtttttgcg 12360 aaatggagtc gggttcgctt tctgggtctt tgattttttt ttttttgaga cagagtctca 12420 ctttcaagtg tgctgctcaa gtgcagtggc gcgatctcga ctcactgtca gcttcgcctc 12480 ttgggttcac accattctcc tgtctcagcc tccggagtag ctgggactac aggtgtctgt 12540 cgccacgccc ggctaatttt tttgtatttt tagtagagag agggtttcat cctgttagcc 12600 aagatggttt cgatctcctg acctcgtgat ccgcccgcgt gggcctccca aagtgctggg 12660 attacgggcg tgagccaccg tgctcagcca cagccagcta atttttcat gtttttagta 12720 gagacgaggt ttttccaggt tggttaggct ggtcttgaac tccaacctct ggtgatacgc 12780 cggccttggc ctcccaaagt gctgggatta cagacctggc cagcctaaac gatttttaaa 12840 acaagttaga gattttgggt tagtcttgtt ttccaggaat aaagtaccat ttttagtggc 12900 caaggatgta ccagagggtg tggccctgtg acatccagct gggtctgccc agggccccgc 12960 tcagcgaccg aggctttcta ggatttatgc tgccagttgc agagaaaatg gccctgagtg 13020 agggcgttat gactgcccca cctgcctcct gtaaccgcgt ggctgtggga ttcggggctg 13080 ggaattcggg ttcctgtggg gccagcacac ggccctgtgc ttctccctca ggcggagaga 13140 gggtgggggc agccccgtgc gtctcctgct ctaggaggga gggacggtgg gggccggtgc 13200 gccagtgcgg tgtctctgct gcaggtggct gggctgacgc tgctggctgt cggggtctac 13260 tcagccaaga atgcgacagc cgtcactggc cgcttcatcg aggctcggct ggggaagccg 13320 tccctagtga gggagacgtc ccgcatcacg gtgctggagg cgctgcggca ccccatccag 13380 gtagcggcgc aggcctggcc ctccctgagt gcagttcctg gctgagtccc ttctgcccca cgagcacagc ccacgcacac cctcccgtcc cttccctttc cccggataac aggcacccgc acgctgcttc acgggtgggt tttcctgtct ggcgctgtac cttaggggtc tgcatcagtg agaccettee cetgtetgee teggtgteee ttgeteaggg etettgatgg ggeetgggag 13620 cacategggg teettgeaag accegggaet tgggtgtgeg geegtetgte ggggaagetg 13680 ctacaggcca tggcgtctgg tggcctccct ggggagccgc gccgcttgcc agcccctgag 13740 gtgcctgctc tccacaggtc actgggtagg tggttaagaa aataaaagcc aataaggaac 13800 cggaaaatgc ccctaatccc agcaatagcc tcctggtctc ccggcggggc agggttccag 13860 etccgggccg gtcctggctg tgctttgggg cagctccgtt tctgtgtgtt accgagcatg 13920 tgtgtgcgtt ggtggctgtt ccgtggctgt ggcaggtgac ccaatggtgc ttccccttcc 13980 cctccggcag gtcagccggc ggctcctcag tcgaccccag gacgtgctgg agggtgttgt 14040 gcttagtgta agtcggtgtg cctgggaccg gggaggtgca gggaggggac cccggagctg 14100 ggctgggctg tggcccttgc tagcgctcgt ggtggcgccc aggagctttt gggtcctgag 14160 atgcaactgc ttggactgtg ccggggatag ataggctgcc cacgagctgg gcggcttcct 14220 gaggagcaga gtccgcaccc gggcattccc gcagcccctg tcaccgaggc ttccgtgggt 14280 gcagagtgtc tcccccaaac ccccgtcttc cccggcagcc cagcctggaa gcacgggtgc 14340 gcgacatcgc catagcaacc aggaacacca agaagaaccg gggcctgtac aggcacatcc 14400 tgctgtatgg gccaccaggc accgggaaga cgctgtttgc caaggtgaga gcgcctggct 14460 gaacaggtgg gccaggggcc gctggggtct cacctgcctg caggtgtctg ggggcctcag 14520 ccgcctgggg aatggacccc ccttaggcct ttgcctaccc tcgtgtaggc tcagggtgct 14580 ggtgtgggca gcagcgcctc ccatcttcca ggcgggggac gtctcctgtc tggcaggctg 14640 tggcttccag acagggacac ccggcagggg ctccacactc caggtggagt gtgcaggctt 14700 tgcagaggca gagggaacat ctgttctgtc tcccctcact cttcttgtcc agaaactcgc 14760 cctgcactca ggcatggact acgccatcat gacaggcggg gacgtggccc ccatggggcg 14820 ggaaggcgtg accgccatgc acaagctctt tgactgggcc aataccagcc ggcgcgggtg 14880 agacgtcccc acagcatgca ccaggccctt ggctgcggcc cagcaggctg ccttctggga 14940 agggggtcca ggtgtctctt ggggaccctg tctttctgca gctctgtcct tgtggccacg 15000 caggaggccc aatggagggt ccctcggagg gaaagtcccc tgagtgtgga ccctggtgga 15060 cacgaggtcc ccagcgtgtg gaggctgcca gtgggatact tggctcaggg cagaagggag 15120 gtgggtgggt gcagggggag aggggtcttc acagctgcag gggaggctcc tccacagccg 15180 ccctccccc aacacgcctg caggtgggcg tgggcactgg ttgccttttc tagaaccatt 15240 tgaaagttag ctgaagacag catggcacac tcccttcaat aggtcccaca gtgaccccgc 15300 gcagggcaca gcccgggcac ccttgtggcc tcggctgtcc tcgttggaac cacgatcctc



ccccctgcct cagtcgggcc actccacgca gcagcgtgca cctgctcgtg ccctcaggag ggtggggcca tgttggttgc tgacagtcac acggggctct ctggaagcca gtccagcatc 19140 ccaggtgccc gggctctgct gggtgtggtg ggaggtttct ggctctcatc ttggccaaca 19200 ggcacctcct agagggaatg gtcgtcagga caggccccgt gtgagttggg tggtggggt 19260 ggagggacgt tgtgtttcct ggaccaggtc ccttggcttg gtcctgtttg acgggttcag acacacggtg ggactggcct ccgattgtcc cacagttagt tgttcctcgg aggcacccct 19380 cctgctgctc cttggatact ccagggccga ggagccgaga ctcactggag tgtgggcatg 19440 gccatccaga gagctctgat caggccgggc gcggtggctc acgcctgcaa tcccagcact 19500 ttgggaggct gaggcaggca tatcacgggg tcagattgag accatcctgg ccaatatgtc 19560 gaaaccccgt ctctactaaa aatacaaaaa ttagctgagt ttggtggtgc atgcctgtta 19620 tcccagccac acgggaggct gaggcagaag aattgcttga cccggggagt tggaggttgc 19680 aatgagccaa gatcgcacca ccgcactcca gcctggccaa agattgagac tccatctcaa 19740 aataaaagaa agctttggtc tttgggggtt gctgaaaaag caaaaccagg tctgtggggt 19800 agaaggcgcc ctggccacac acaggcattg ccgcctctgg ggtccgcaga gtctgtgta 19860 caacctggtc actcgatcta gcagcgtatt tgaatgaatg agtgacagct taatgaagta 19920 gccaagtacc ttgatttgaa cgtaggagcc ggggtatgta gggagctgta ttagtcagta 19980 caggctgggt tatgccgctg tgacaaagag tcccagatct caaaccccgt ccttgtgggt 20040 cagctgaggt ctctgttcca ggccgtcccc acttggaacc aggtctgttt ccacaactca 20100 gaaagtggag gctgggtatg gtggtggctg acgcttgtat tcccagcatt tggggaggcc 20160 aagtcagtca gattatttga agccaggggt tcaggaccag cctggaaagc aaggtgagac 20220 cccatctcta caaaaaatga aaaaattggc cggacctagt ggcacatgcc tgtaatgcca 20280 gctgcttggg aggctgaggt gggagggtca cttgagtcca ggaggcggag gctgcagtga 20340 gctgtgattg tgccactgca ctccagcctg ggttacagag caagaccctg tcttaaaaac 20400 tgagaataat ttggaacaag cccggtggct cactcctgta atcccagcat gttgggaggc 20460 caaggagaga agatcacttg aggtcaggag ttcaagacca ccctggccaa catgatgaac 20520 cccacctcta caaaaaatac gaaaattagc tgggtgtggt ggtgggtgcc tgtaatccca 20580 gctactcagg aggctgaggc aggagaattg cttgaaccca cgaggcagag gatgcggtga 20640 gctgagatca tgccactgca ctgtagcctg agggacagag tgagactgtc tcaaaaataa 20700 taataagaag aataataatt tgggctgggc acagtggcac atgcctgtaa tcccagcact 20760 ttgggaggcc gaggtgttgg atcacttgag gtcaggagtt cgaggccagc ctggccagtg 20820 tgccgagacc ccacctctac taaaaataca aaaattaact ggacggggcc gggtgtggtg acttatgcct ctaatcccag cactttggga ggccgaggtg ggcggatcac ggggtcagga 20940 gttcaagacc agcctggaca acatggtgaa accccatctc tactaaaaaa taaaaaaatt 21000 atccaggcgt ggtggctggc gcctgtagtc ccagctactc aggaggctga ggcaggagga 21060 tcgcttgaac ccgggaggtg gaggttgcag tgagctgaga tggtgccact gcactccatc 21120 ctgggtgtca gagcgatact ccatctccaa aaaaaaaaa aagaaagaaa ttaacctggt 21180 gtggtagcag gcacctgtaa tcccagctgc tcgggaggct gagtcaggag aattgctgga 21240 actcaggagg cagaggttgc agtgagctaa gatcacgcca cagcactcca gtctgggcga 21300 cagagcgaaa ctgtctcaaa atataaatga taacagtaat aatttggctt ggcacggtgg 21360 ctcttacatg tagcattttc tacacataag attatgtcac ctgagaacag gtgattttac 21420 ctctcccttt tcagtttgga tgacttttct ttttcttgtc ccatatctct ggccagagct 21480 tccagcgata tgtggaatag aagtggtcag aattcttgct tggttctttc tcagaggaag 21540 ctttcagttt ttcaccactg agtatgttag ctgtggactt gtgatcgctg gccttctttg 21600 tgtttagggc atgttcttca atcctggttt gttaattttt tttgtttctt ttctttctt 21660 ttggtggggg gaccagtctc gcttttgccg cccaggctgg agtgcagtag agacagggtt 21720 tcaccatgtt ggccaggctg gtctcgaact cctgacgtca ggtgacctgc ccacctcagc 21780 ctcccaaagt gctgggatta caggtgtgag ccactgcaac cgaccagttg aattttttt 21840 ttttaatcat aaaagtgtgt tgaattttgt caaatgcttt tcctgcatga gatgagaggg 21900 tcatgtggtt tccttcctcc actctgctaa tattgattga ttttcatata ttgaactatc 21960 cttgcattcc aggaatgaat cctgcttggt tagggtgtag agtcctttaa ctatactgct 22020 aaattcgttt tgctggcatt ttgttgagga ctttcccagt gaggctcatc agggatattg 22080 gcctgccatt tctcttgtgg tgtgtttgtc tggctttaat atgagggtaa tgctggcttc 22140 ctaggatgag tgaggaaatg ttcttcaatt tgtccaagag tttgaggagt ggtactgatt 22200 cttcttaatg ttttgtgaat tcacatgtga agaaatcagg tccaggtctt ctctttgacc 22260 ttttatagct tgaagatctt aggttcccag aaaaattgca agggtagcac agagagctcc 22320 cgggcccggg gccttcccac atggtgaaca tcatgtgtca ctgttggacc cacccgcgac 22380 caggitting cccagaatcc cacccaggag gccacgingac attragctnt cacticingt 22440 gggctcctgc caggtcccgt gcttcctgga ggggtggccc tgtgagcatc tgcgtagccc 22500 ctctcctctg ctgggccctg ggtgacgtgc agccactcgg gtggaccctg agggtccctg 22560 caccigiting cocteteting ggitgggetea agaccaaaaa tgatgitgag cagicetggg 22620 eccetgagee acagtggegg tgeggeteeg gteagtgtet cetgegetee egggeeeeeg

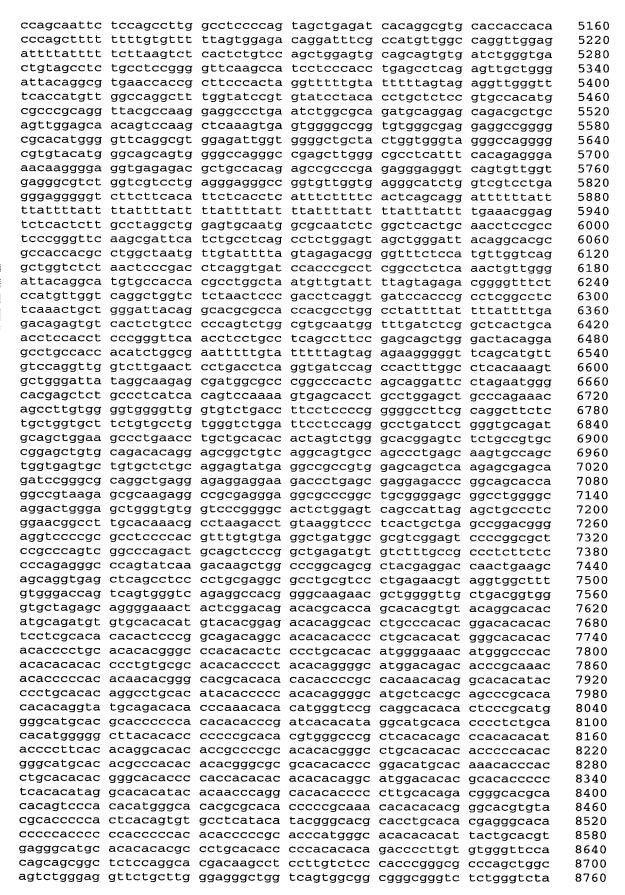
1440



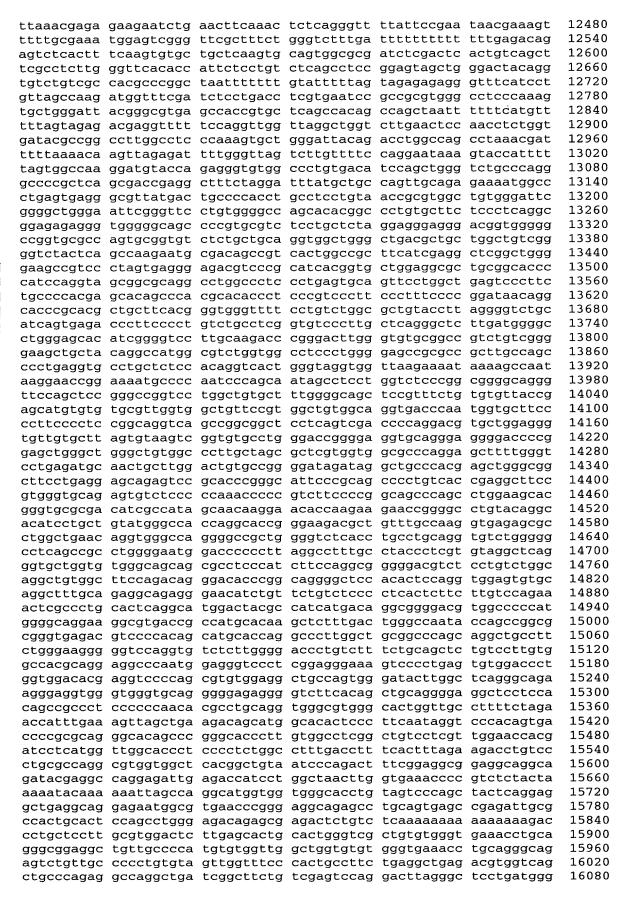
<210> 2153 <211> 24533 <212> DNA <213> Homo sapiens

<400> 2153 eeggetgegg egegtggage tgeteecage egegetegag teagaetegg gtgggggtee 60 cggcggcggt agcggcggcg gcggtgcgag catgtcgtgg ctcttcggcg ttaacaaggg 120 ccccaagggt gaaggcgcgg ggccgccgcc gcctttgccg cccgcgcagc ccgggccgag 180 ggcgggggga ccgcggcttg ggagaccgcc ggcgcccaag gacaaatgga gcaacttcga 240 cccccacaca aaaaatagga ccaaggcggc gcgcgagctg gagcactcgc gtgagtgcgg 300 cggggcgggg cgggcgggcg ggcgggacgg gccggggaag cgggagcct ggccttgccg 360 ctcctcgctg ctgtcggcag ccacttcccg ggcgagactg cgcccccgga gcaccccccg 420 ccggagccgt ctcgcgtgcc gggaggatcg gactctttcc gtcacccgtt tgcacctctg 480 cagctgtcag gagcgggtca ggtgcgaaaa gcggtgcgga ggtggcgctc ataggttaca 540 ggggtcaggg tctggggctg gccgtggtct tcagttaccg ccgagcgtgc gggatccttc 600 tgcgcttgcc gcctccacgt ggcacaggcc aaggcgtggc cagatgggta gatgggtttg 660 ttgggtggtt gctagcagtt tccacgtaac aagggaagcg tatttgagag ttacttgatt 720 ctaacgagac tagcagattt gcacttcttg ttggaagacg ttagcatttg cacggcgagg 780 tetgtgaage acaggeeagg eegtgetget eagettgagt aaaceeetga eecaaggeee 840 tcagggtgtg agcactgact gcacettece taageteggg tetetteece cageetteet 900 ttcccctgtg gctttaacga tttgtagcac gatgcagttc aaatggctag gagtctggaa 960 cgtagaaggt gctgaattca ttgaaagaat acagtggttc tcaactcttg tttaagccgg 1020 ggttctttct atttattat atattgagac acagtatcgc cctgtcgccg aggctggagt 1080 gcagtggtgc gatttcggct ccctgcaacc tccgcctccg attctcctgc cgcagcctct 1140 cgagtagctg ggattacagc cgcgcagcac cacgcccggc taatttttt tgtatcttta 1200 gtagagacgg gtttcaccat gttggccagg gtgctctcca actcctgacc tcgtgatccg 1260 cccgccttgt cctcctgaag tgctgggatt acaggcctga gccacagcgc ccagacagaa 1320 gggattcctt ttttttttt tttttttt ttttgagatg agtctcgctc tgtcgcccag 1380 gctggagtgc agtgacgtga tctccactca ctgcaagctc cgcctcccgt gttcacacca

ttctcctgcc tcagcctccc gaatagctgg gagtacaggc gcccgccacc acgcccggct 1500 aattttgtag agatggggtt tcaccgtgtt agccaggatg gtctcgatct cctgacctcg 1560 tgattaattt tttgtatttt tagtagagac ggggtttcac tgtattagcc agggtggtct 1620 cgatctcctg acctcgtggt ccacccgcct cggcctccca aagtgctggg attacaggcg 1680 tgagccaccg catgccacct tttttttttt aagatgatgt cttgctcttt ggccaggctg 1740 gagtgcaatg gcgccatctt gtctcactgc aaaccgcaac gccctggttc aaagaattct 1800 gctgcctcag cctcccaagt agctgggatt acaggcacgc gccaccacgc ccagctaatt 1860 tttgtatttt tagtagagac gtggtttcac caccttggcc agggtggtct tgaccacctg 1920 accccgtgat ccacccgcct cgacctccca aagtgatgag attacagtcc tgagccaccg 1980 caccttgcca gcaggggttc ctttttagaa agaagatcat ttagggaatc cctggtgtga 2040 agcagatata aacagagttt ccctgtttaa ggagggatgg cctggtggta cttgtggttc 2100 catcctgtgc ccttccccgg ggtgctgggg aacatcctga gctgaggttt ctggccccgg 2160 ctgggtctca taaccccaga gggacattca ggtttgggcc caggcccagg ctaacatgga 2220 tagtcctagc tgggcaccac cgacagtgcg tgttctgttt tgaagagatg gggtcttgct 2280 ttgtcgccca gtctggcctt gacctcctgg gtaaaagccg tccaaccgtc tcagcctcct 2340 gaggagaggg gactgcaggc ttgctcggta atttttcttt tttctttct tttttcttt 2400 tttttttgac ggagtctcgc tgtcgcccag gctggagtgc agtggcgtga tcacggctca 2460 ctgcaagctc cacctcctgg gtacacgcca ttctcctgcc tcagcctccc gagtagctgg 2520 gactacaagt gcccgccgcc acgcccagct aattttttgt attttttta gagaccggtt 2580 ttcaccatgt tagccagaat ggtctcgatc tcctgacccc gtgatccacc cgcctcggcc 2640 acccaaagtg ctgggattac agacgtgagc caccgcgccc ggctttgctc cgtaattttt 2700 ctgtgtgttt ttgagactga gtctggctct gccgcccagg ctggaatgca gtggcatcat 2760 ctctgctcac tgcaaccttt gcctttgggg ttcaagcgat tctcctgcct cagcctcccg 2820 agtagctggg atcacaggcg cccgccagca cacctggcta atttttgtgt ttttttacta 2880 gagacggggt ttcaccatgt tgtttaggct ggtcttgaat tctggcctca ggtgattcgc 2940 ccacctcggc ctcccaaagc gctgggatga caggcgtgag ccgctgctca tggccttcct 3000 cggtaatttt aacgatcagg ttaggatggg aatcaagggc tggacttcag ggcacctcgg 3060 aggacagcgg atgttggtga ctgactttct tgctgcaggc ttatttggag ggttcctttg 3120 tgtcctagtt cctgggggtt ttcacccgct aacttcactt agagattgaa acttctccca 3180 cttccagaag ctgaatcgta gtgatcagcc tgcggccccc tgcagtggta caggcctggt 3240 tgagcagcct caggccgcct ccccatagtg cagacctgtg cctctgagtt gctccagtcc 3300 tggcggcccc ggagctcctg acccgcagtc cgctctgccg gcgttgccag tgccttggtc 3360 tgccctctct gtggtggagc ggggcccggg gcagggtctc caggtgcacc gtggggagcc 3420 ctccatcagg cttttgtttc ctgtggattg tgttccaggt gtgggctctt tcattttgat 3480 cccttctctc cttcctggcc tcactgctgg cgggtgagag aggtttctcc ggagttgact 3540 gccccctttc cccgggtgcc ccctgccctg cccctctgcc tggtagcccc tctgcaagcc 3600 cggcccctcc cgacgctcct ggcttcctcc gtgccccttt cctggcagcg gggtcgccga 3660 gattcgcccg ttgctttgtc cttgctgctc tccaggcaaa cgggcggctc ctcctcaccg 3720 actgcctcct ctgtcccttg aggctatagc cccatgccgc ctcgttccca gagtctgccc 3780 tgacccctcc tccggcctgt ccttggaagt cacagcagta cattatccca gaactgtctg 3840 tgagcaccag cgctcgccct gcactccaca gagggggtgc ctggaggaga gcctcgtgcc 3900 ctgtgggtgt gaattcacgc gctgggacgc acgtccctgg cacagggtca caccaaagtg 3960 gtgaatgatt gttctcattc taataaccga gaggccacac gggcacctga cctgctcttt 4020 cccctctcct cctccccaga gtcactgggg gtgggaactg tcaatgagcc attttcaggg 4080 gagggagtgg cctcagctta atccagccaa aggtcccctc gggaggaaac aggcagagct 4140 cctcaccgtg acacccacgt tcctgtcact gctctgtggc aggaccctgg gggactgaca 4200 4260 cacceteagt eccetegggg teagagtgag agtggttgag ageceggggt egetteagee cttggcttcc cgagcttagc agccaaaccc gttgacctgg cactgtcttc cctgagaggc 4320 aggtcccggt ctcatctgtg ctctgttcac tggggccccc gaggttagct accaaggcgc 4380 ttcctgaaat gtgacgctga tgcccgtcag cccagttcgt gcctaaccac aggcccaagc 4440 agacccaccc caacaccaaa gcgtcgctgc ctctgtctaa atgcaacgag tgctcccac 4500 ggcacttccc cctgcgtcag tcacctccaa aaattacacc tgagctgaga acagacgctg 4560 ggctctagtt agtgacgtgt ttgctgcagt tgactctgaa ggcttaaaaa agtgagacgg 4620 gctgcgggag gaagagagac gggaacaacg caccaaccca ggagcatcgg gggtccctgc 4680 ctactttaca cgtctttctg tgttagaata atttttttt ttttgagacg gactcttgct 4740 gtctcccccg ctggagtgca ttgcttcgat ctctgctcac tgcaagctct gcctcccagg 4800 ttcacgccat tctcctgcct cagcctcctg agtagctagg actacaagtg cccgccgcca 4860 cgcccggcta attttttgta tttttagtag agacggggtt tcactgtgtt aaccaggatg 4920 gtcttgatct cctgacctca tgatccaccc gcctcagcct cccaaagtgc tgggattaca 4980 ggcgtgagcc accacgccct gctagaataa ttttttttta gagacggagt tgcgctctgt 5040 tgccccggct ggagtgcggt ggtgcgatct cggctcgctg caagctctgc ctcccaggtt 5100



8820 tgagaaaagc ttgggtgaca tctgttccct ggtccttagg gaccgtcacc ttcagtcctg agctcgcagg cggggttcac atgttgcctg ttgtgggcat tgtagcttta acgtttaatt 8880 8940 ggcggaagac agaagcttcc ttaagcccag cctgaatcag ggcagtggtg ttgggaggtc 9000 ggcccgcggt ggcccttgtc agggaagcca cagtgggggc tgtttctgcc actggggagt ttgggaccet gaacceatee ceteagtgae tgeegteeca geegatgtea eeegtgtetg 9060 tgtcagggtg cggcgtctgc aggtccccag gtgcccagga cgcttggagt tctgtggtcc 9120 tggggcggac gcaacctctg gattggtgtt gagcattttt ctggttttaa aggcttttct 9180 ctttttctgc ggcttcttct cagcaacttc tcaatgagga gaatttacgg aagcaggagg 9240 9300 agtccgtgca gaagcaggaa gccatgcggc gaggtaggct gtctgctctc ctggctgggg cggaggtggc gggggctgct tgtggacccg gcgtgcactc tgagcctgag ttctgccgcc 9360 cggcccctca tagctaccag tgcagtgggc gaggcctgct ggggctccgc ggggtggggc 9420 tgcctctcgg aagacacctc tgtctgcgag tggacgccag gatctgttca gggagggcag 9480 gagctgcttc acttcatggg aagtacaggg gcctttgttt tttttttgag acggagtctc 9540 9600 gctctgtcac ccaggcagga gtgcaatagc acgatctcag ctcactgcaa cctctgcctc 9660 ccaggtttaa gcaattctcc tgcctcagcc tcccgagtag ctgggattat aggctcccgc caccacgccc agctaatttt tttgtatctt cagtagagaa agggtttcac tgtgttggcc 9720 9780 aggetggtet tgaacttett gateteatta teegeetgee ttggeettee acagtgetgg 9840 gattacaggc gtgagcctct gcgttctgcc tagaacatgg gtctttactg tcctggtttc agtggggatc acaggtattt ggtgccatgt ggcatttgtt ggcgagtgct ccaggcaaac 9900 gtctgtcacc actcttcact gtgggtgggc ttgtggcgag gtgtgtgcgt ttaatgttca 9960 10020 gtagccaggc acgtggcacg tcacgcgtgt ctgagttctg acagctgtgt ttctgtgtga 10080 ggggggcttc cttcagaact ccgcgttctg gttttttgct tcaaagagct cgtcctgaga agttgcctag gcctctgggt cggatttctg ccctaatcca tgggcagggc cggcctgtgg 10140 cgctgtccct accaaggtct gtgtgtgtct gtggcacggg cctgtccatg gactgggctt 10200 gtccgtggag tgggtcggtc catggcctta gcctgttggt ggcgtgggcc ggtccacggc 10260 atgggcctgt ctgtggcgtg ggccggtccg tggtgtgggc ctgtccgtgg ccttagcctg 10320 ttggtggcgt gggccggtcc gtggcatggg cctgtctgtg gcgttggtct gtccgtggcg 10380 tgggccggtc cgtggcgtgg gccggtccac agtgtgggtg gaggtggacg tgctgcactg 10440 catggtgctg agctgcccta cctctctggg gcagccaccg tggagcggga gatggagctg 10500 cggcacaaga atgagatgct gcgagtggag accgaggccc gggcgcgcgc caaggccgag 10560 cgggagaatg cagacatcat ccgcgagcag atccgcctga aggcgtccga gcaccgtcag 10620 accgtcttgg agtccatcag gtgagcactg ccgaggcccg ggccggccac agatggagcc 10680 ccgcaggtgt gagtcgctgg tcccagggcg ctctccagct cttccaggcc tggccgccgt 10740 aggctgactc cttggtgggg gcactgcctc ctgtcctggc aaggccgtgc cgccatgtca 10800 gggcctcacc ctcaacctgc tctcgctgcg tggtacggat cttcgtgtcc ttcctggtca 10860 caccactgct ttccccgcag gacggctggc accttgtttg gggaaggatt ccgtgccttt 10920 gtgacagacc gggacaaagt gacagccacg gtaaacatac tcataaaaca gggctggcag 10980 gtggctgaga ggcagcatgt gggggcctcc tggagcccca ggtcctgtcc ctgccggctc 11040 tgcacagccc tgtagctctc ccagcacaga gcaaacccac gttgtacctg ctgggctcgg 11100 ctgctcctcc ctccttgagc tgggagaaaa aaatgcagtt gccagcctgg gccacacggt 11160 gagaccccat ctctacgaag aataaaacat tagctgggtg tgatggtggc gcctgtggtc 11220 ctgctactcg agaggctgag gtaggaggat cacttaagcc caggaggttt gggctgcagt 11280 gagccaacat tgcaccactg cactccattc ttggcgagag aataagacct tgtctcaaga 11340 aaaaaatggc caggcggtag tggctcaggc ctgtaatccc agcattttcg gaggcggagg 11400 tgggcggatc acgaggtccg gagatcgaga tcatcctggt aagagtgaaa ccctgtctct 11460 actaaaaaaa agaaaaaaa agaaaaaaaat tagctgggtg tggtgacatg tgcctgtaat 11520 ctcgggaggc tgaggcagga gaatcacttg aacccgggtg gtggaggttg caatgagtcg 11580 agatcccgcc actgcacccc aagaccagca tgaccaacat ggtgaaaccc catctctgct 11640 aaaaatacaa aaattagcag gccaaggtgg cgtgcgcctg gaatcccagc tgcttgggag 11700 gctgaggtag gaaaattggt tgaacccagg aggcggaagt tgcagtgagc tgaaaccgca 11760 caattgcact ccaacctgtg gaagaagagc gaaactctgt ctcaaaaaaa caaacaaaat 11820 aaataagcca ggcctggtgg ctcactggtg taatcccagc actttgggag gccaagacgg 11880 gtggatcact tgaggtcaga agttcatgac cagcctggcc aacatggtga aaacccatct 11940 ctactaaaaa tacaaaaatt ggccgggcct cgtggcacag gtctgtatta gctgagtgtg 12000 gtgacctgag cctgtaatcc cagtcactcg ggaggctgag gcaggagaac tgcttgaacc 12060 tggaaggcgg aggttgcagt gagccaagat ggcaccattg cactccagcc tggccacaga 12120 acaaaaccct ttctctaaaa acaaagtcaa gggcgcatta agcagctcct tcatgttctc 12180 aggtgacacc gtctcaccaa catggcaaca ccacctgcaa cattcaccgt cacactgacc 12240 aggccaccgg caggtgctgc agtcacagca gtgggcgccg gcaccacggc agagcaagtg 12300 cccactcagt gccgggcacc tactgtgtgc tgggcggggt ggggggacgg aggacacagc 12360 catgtgcgac ctggggcgcc accacagcag gccagagcct gggcacaaaa gagcgaggct 12420





atcccagcca cacgggaggc tgaggcagaa gaattgcttg acccggggag ttggaggttg caatgagcca agatcgcacc accgcactcc agcctggcca aagattgaga ctccatctca 19860 aaataaaaga aagctttggt ctttgggggt tgctgaaaaa gcaaaaccag gtctgtgggg 19920 tagaaggcgc cctggccaca cacaggcatt gccgcctctg gggtccgcag agtctgtgtg 19980 acaacctggt cactcgatct agcagcgtat ttgaatgaat gagtgacagc ttaatgaagt 20040 agccaagtac cttgatttga acgtaggagc cggggtatgt agggagctgt attagtcagt 20100 acaggetggg ttatgeeget gtgacaaaga gteecagate teaaaceeeg teettgtggg 20160 tragctgagg tetetgtter aggregtere carttggaar caggtetgtt teracaacte 20220 agaaagtgga ggctgggtat ggtggtggct gacgcttgta ttcccagcat ttggggaggc 20280 caagtcagtc agattatttg aagccagggg ttcaggacca gcctggaaag caaggtgaga ccccatctct acaaaaaatg aaaaaattgg ccggacctag tggcacatgc ctgtaatgcc 20400 agctgcttgg gaggctgagg tgggagggtc acttgagtcc aggaggcgga ggctgcagtg 20460 agctgtgatt gtgccactgc actccagcct gggttacaga gcaagaccct gtcttaaaaa 20520 ctgagaataa tttggaacaa gcccggtggc tcactcctgt aatcccagca tgttgggagg 20580 ccaaggagag aagatcactt gaggtcagga gttcaagacc agcctggcca acatgatgaa 20640 ccccacctct acaaaaata cgaaaattag ctgggtgtgg tggtgggtgc ctgtaatccc 20700 agctactcag gaggctgagg caggagaatt gcttgaaccc acgaggcaga ggatgcggtg 20760 agctgagatc atgccactgc actgtagcct gagggacaga gtgagactgt ctcaaaaata 20820 ataataagaa gaataataat ttgggctggg cacagtggca catgcctgta atcccagcac 20880 tttgggaggc cgaggtgttg gatcacttga ggtcaggagt tcgaggccag cctggccagt 20940 gtgccgagac ccccacctct actaaaaata caaaaattaa ctggacgggg ccgggtgtgg 21000 tgacttatgc ctctaatccc agcactttgg gaggccgagg tgggcggatc acggggtcag 21060 gagttcaaga ccagcctgga caacatggtg aaaccccatc tctactaaaa aataaaaaaa 21120 ttatccaggc gtggtggctg gcgcctgtag tcccagctac tcaggaggct gaggcaggag 21180 aatcgcttga acccgggagg tggaggttgc agtgagctga gatggtgcca ctgcactcca 21240 21300 ggtgtggtag caggcacctg taatcccagc tgctcgggag gctgagtcag gagaattgct 21360 ggaactcagg aggcagaggt tgcagtgagc taagatcacg ccacagcact ccagtctggg 21420 cgacagagcg aaactgtctc aaaatataaa tgataacagt aataatttgg cttggcacgg 21480 tggctcttac atgtagcatt ttctacacat aagattatgt cacctgagaa caggtgattt 21540 tacctctccc ttttcagttt ggatgacttt tctttttctt gtcccatatc tctggccaga 21600 gcttccagcg atatgtggaa tagaagtggt cagaattett gcttggttet ttetcagagg 21660 aagettteag ttttteacea etgagtatgt tagetgtgga ettgtgateg etggeettet 21720 21780 cttttggtgg ggggaccagt ctcgcttttg ccgcccaggc tggagtgcag tagagacagg 21840 gtttcaccat gttggccagg ctggtctcga actcctgacg tcaggtgacc tgcccacctc 21900 agcctcccaa agtgctggga ttacaggtgt gagccactgc aaccgaccag ttgaattttt 21960 22020 gggtcatgtg gtttccttcc tccactctgc taatattgat tgattttcat atattgaact 22080 atccttgcat tccaggaatg aatcctgctt ggttagggtg tagagtcctt taactatact 22140 gctaaattcg ttttgctggc attttgttga ggactttccc agtgaggctc atcagggata 22200 ttggcctgcc atttctcttg tggtgtgttt gtctggcttt aatatgaggg taatgctggc 22260 ttcctaggat gagtgaggaa atgttcttca atttgtccaa gagtttgagg agtggtactg 22320 attettetta atgttttgtg aatteacatg tgaagaaate aggteeaggt ettetetttg 22380 accttttata gcttgaagat cttaggttcc cagaaaaatt gcaagggtag cacagagagc 22440 tcccgggccc ggggccttcc cacatggtga acatcatgtg tcactgttgg acccacccgc 22500 gaccaggttt tgccccagaa tcccacccag gaggccacgt gacatttagc tgtcacttct 22560 ggtgggctcc tgccaggtcc cgtgcttcct ggaggggtgg ccctgtgagc atctgcgtag 22620 ecceteteet etgetgggee etgggtgaeg tgeageeact egggtggaee etgagggtee 22680 ctgcacctgt ttgccctctc ttgggtgggc tcaagaccaa aaatgatgtt gagcagtcct 22740 gggcccctga gccacagtgg cggtgcggct ccggtcagtg tctcctgcgc tcccgggccc 22800 ccgacccaca gtggcggtcc ggctctggtc agtgtctcct gcgctcccgg gcccccgacc 22860 cacagtggcg gtccggctcc ggtcggtgtc tccccacaca gtggctcttg gcgaggggtg 22920 ggcgctggca gaggggacgg gcaccacgtg gtcatcccca tgacaggttc tgtcatggtg 22980 acagtgttgt gggaggatgg tgtgctgctg cccctgcacc ccgtgagatg aatcctgcct 23040 ctgggaggta cagctgggac ggggcgaggg acccactcag ctgtccagga agggtcccct 23100 gccctgtgct tcctccaggt gtcctggtgc actcctgagc acggcaccta gtgggggtcc 23160 ccacaccete accetgacce atgggtgeet eccettgggg actecacgee ettegetgge 23220 actgagatgg agagcgacct gtccgtggca gaagggctgc tgcacctgag gtgcctaagg 23280 cgacaccaag ggccacagcc ccagtagctc cagcctccgt gtgctcaatg ccaagccctg 23340 tgcccaggag gacagggaaa tggaggcaga ggtggccttg atgtcccaag gtgggcagtg 23400

cccgggggca tctcggaagc gaaagtcatt cgctgccagt ctgaggttgt taagggtggc gcatatgcct gctgtccagc gtcgagcacc gaccctcct actgggctgt gcccccagg ccctcgagac ttgtaccca agaaggagtg ggggcctgcc ggggccacgg	ctgcctggcc tgccctgggt gagcaacagc gtccacatgc cctggtgccc gggttcccat ccaaggacgg agtaccgaca ccctatccgg acccctgcct gcagggacct gcacccctg actcttggga gccctgccc gggcaggcgg aggactagac aacccggcag	acggctgaga cagccgtcag agtgctgagg gtgctggctc ctggtttggc agcggcctcc ggtcctcact gaagatgcgc agtccaaggc tgccggcccc ctgtccccca ttgtaggcac gatgcatttt aggccactgt ggtctttgtt agaagtgggg gggtgtctga	ctcgcagagg tggtgctccg acgcaggcag tgccaaggtg ccctcccac ctcagctccc gaggccatga tgctgaagg gagacctca tgcacattta ggatgtcttg tggctagga ccgtctggct gagggtggt ctcggctccc cggcctgaac ggccgcctg	gggtctgagg gtctgcagtt ccttgggttt ggctgtgggc tgggaagcct ctcggggccc tctctctca tggacgcctg cggagggcc cctcatggag ggatatgctc tggtggcggt gggcaggcc cacagggga gctggctgag acagcagagc cctgcttcca tcagctgcc caggtgccc	cccacctgcc tctattatca actgcagggc gtgtttcacc tggcgtgcat ctaggccacg tgtgcaagat tgggcgcggg cctggccacg ctggatgggg cggcgttct tccttcctgc gggtgaggct cccctgggcg caggtgaggg gccatggcca ggtcaagcc	23460 23520 23580 23640 23700 23760 23820 23880 23940 24000 24120 24180 24240 24360 24360 24420 24480 24430
<210> 2154 <211> 490 <212> DNA <213> Homo	sapiens					
gactttaaaa ttagaactca agtcactcca gggagcgcgt cgccccgcaa ggcgggaggg	tgcaggacaa ttgtatctaa tatattccgt ggaccgtggg gaggagctcg ccgtgcgggc	agactgaaca cattattcag gaagtcaacc ctccggggcg ctggccccgc tgcggagaca	tactgatata gcttaaaaca agttccatca gcgcctgccc cacgcgggaa ccgaggaggg	ctgaaactgc ctgattcttt gtttccaatc aggagaaagt gggcaccccg ggggtcgccc gaggcgcctc gctcggcttg	gaagggaagt cagtgggaaa cagggccgct gccccgtcca cggggtcttg tcctgagctc	60 120 180 240 300 360 420 480 490
<210> 2155 <211> 318 <212> DNA <213> Homo	sapiens					
aaagactgaa aacattattc tgtgaagtca	catactgaca aggcttaaaa accattccta gtggtgccga	taccggttct tagtttccaa tcaaggagag	ttgaagggaa tccagtggga agtcggggcc	tagactttaa atttagaatt cgagtcactc gccgcgagcg gacgttgcgc	cattgtatat catataattc cgtgaaccgt	60 120 180 240 300 318
<210> 2156 <211> 3241 <212> DNA <213> Homo	sapiens					
gcgacccagc	cactgggcct	aagcctgacc	tgctgcaccc	ggggctccac ctgcctccct caggtgccca	ccacagttgc	60 120 180

	cgcctcatca					240
cggcagacac	acagcaggga	aggtcgattg	gaaaccactt	cctttgtcct	ggtgcccagc	300
aggtttctgt	ccccactcc	agaagtgcgt	ctctggagac	ccagctcttc	tgaggactgt	360
gctcaggagg	aatcagtgtc	ccattgtaca	gacagggcct	aaggaaggag	ggctcgcaag	420
	tcacaggctg					480
gtccctcaca	ccttctgccc	tgctgggctt	tggaatcgga	cctgaggctg	cccaactccc	540
	gtcatgcagc					600
agggtgatct	tagcacctct	cagaggtggt	ctttggttcc	gttctgaggt	gaagcaccag	660
	atggtgagtg					720
	ttctgaagcg					780
	ggaaggagtg					840
	gtgggaggtg					900
	ccccttccc					960
	cctggggcca					1020
	tcccaccagc					1080
	caccagcctg					1140
	gctgctgcag					1200
	caacctgctg					1260
	agagaacgtg					1320
	tcagaggggt					1380
	cttctttgcc					1440
	gttgaacccg					1500
	ggacatagac					1560
	gccagtgtgg					1620
	gctgctctct					1680
	gcccttggtc					1740
	aggacagggt					1800
	taagaggaca					1860
	gtcccagagt					1920
	ccttgtccct					1980
	taccagagaa					2040
	ctggttctgt					2100
	ggcctttccc					2160
	gcagccgctc					2220
	agcaaataaa					2280
	ggacctggct					2340
	gaaggaaact					2400
	gatgcagaga					2460
	cctctttaga					2520
	gagtgagcag					2580
	ccactcctca					2640
	gtttccgcca					2700
	ttggccaggt			_		2760
	tgggtgactg					2820
	ctggttctca					2880
	aaggaagttg					2940
	cagccccagc					3000
	ctgatctccc					3060
	gtggagctgc					3120
	gtccaggtgt					3180
	gaccttgctc					3240
t	59	5 5 5 -	33			3241

<sup>&</sup>lt;210> 2157 <211> 20295 <212> DNA

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 2157

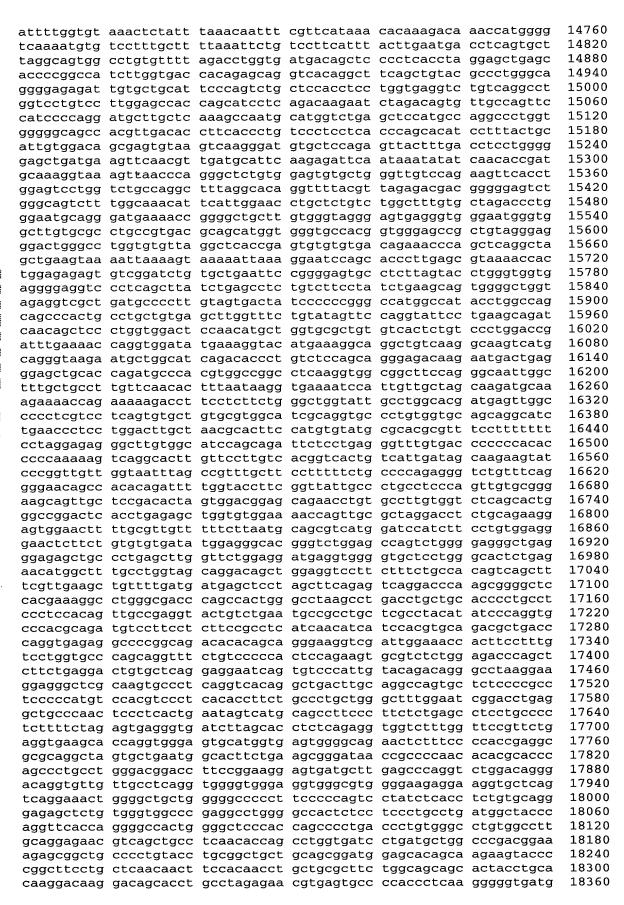
agggccattt gcgacttgaa gagcggtccc cataatttgc tgtcatacat ctgcctgggc

120 acttcctqqq qqtctqqttq gtggcaggag aagggcataa gcagggaggg atgggtcatg 180 ttactgtatt ggctgtgtcc gaatattttt actttatgtt aaagttgatg aggcacaact attgcagagt ccatttttcc gagtctctgc gctcacctgg ctcctgggat tgtggaggga 240 300 gttttgcagc tttcagagtc tgtgttttgg gctcatggcc cagccgaatg gccatgctac 360 aagtctgttc agagcaggtt cgaggggcag aaacgtgttt cctcacaagc tgtgactcaa 420 teetgtetee ggtggetgtg teageeteea ttgtgtteee teeteeaggg gettetgagg 480 agaatggcct gcctcacacg tcagccagaa cccagctgcc ccagtcaatg aagattatgc 540 atgagatcat gtacaaactg gaagtgctct atgtcctctg cgtgctgctg atggggcgtc agcgaaacca ggtgggcccc tctccagcgt ctcaggacac ggggagcagg tgctgcccgg 600 gtgctcatgg tatgccaggt gctccactgg gccttctgtt agaatggctc tcgctttagc 660 ctggcaaagc ataggggtat ttctccttct gttctaccta taaggaaacc aggctgattc 720 cagaaccggg agtcttttca ctgtgccttg ctgtatggag cgtttctagg cagtcttggt 780 tggtgctgag ggcagaagca ggcagttgcc tctgtgaggt gaagactaaa gagttgaaag 840 ctggcaagcc tggccctgtg gacatgctag aggagttgcc aacctgatgt gggctcaggg 900 960 cagtgggaca gagcccagag ctgtgtctgc ttaggaaaac tgggcaagta cagggagctc 1020 cagatgtgca aggttccctg agccttgaag tagttccaag acggaggagg aggggcccat 1080 aacctacagt ggaggaaaaa gggcttggaa cagtgcggcc ctcctcaaga ctattgagaa 1140 gtagcctttt cctgcagacc gcgcccttct agggaggaaa ccaagcatgg gggcaggaga 1200 ggctggaggc tcagcagtcc ttccacatct ttctgagtca gacactggac tgtcacaagt 1260 ctgggcaaca gaggtgcagt tacccccatt ttacaagtga ggatgaaaac gtccagaaga 1320 gaatgaaaga gtgtaccagg tgggaggggg cagtgccctg gggaggagtg tgcatagttg 1380 ctggaacagt gaggcagcgc gggacagcct ggagcaaaca gccaggagag gagggctgag 1440 ggctcacagg gaccaggtca tgtcaagctg tcacaggcca ttttaaagac tttggttttt 1500 actctgagtg aagtgagaag tcattcctct gactgctttt ggaaagactg gaaacagcaa ggaagggaat agggcgacca ttaggggccc tcataatagg gccaagagat gatagcagct 1560 1620 aggaccagca cattgatggt gggactggtg ggaggtggtt gcattctgga tatgttttga 1680 aagataggat ttgctgatgg tttggatgtg aacttaagag tgaggagagg agttaagggt 1740 gactcccaag gtttttcgcc caaggaagta ggagaatgga tttgccaggt attgaggtgg 1800 ttaagactag caggtaaggg gtggaggagc aggcttaggg aggaagatgg ggagttgtgt 1860 tttgtacaag gtagatttga ggtgtgtgtt agaattgaca cttggattga ttacctacac 1920 ctggtgttgg ggagatggca aggctggagg tatcactttg ggagtcctca gcatatggtt 1980 qtatttaaaa ccaggacact ggatgagatc ccacggtgat agccacagca ttggtgtccc 2040 ttccttcaat acqqaacatq tttttaataa aaaataatag ttttagggac agcttttatg 2100 cattgagtgc tattactttt ttgaggcact ttcgcagttg cttatatgtg aaataattgt 2160 agggacaget tetgtgcatt gagtgetatt aetttttega ggcaetttea eagttgtttg aattttcagg tatttagtaa gttacacaac aggtggtgac tctgtgtccc cacactcgat 2220 tcttgagaaa gccagggcat aaactgggct gtgcgctcag gggacaggcc tggatagagc 2280 2340 caggatttaa actotgotgo cotgtotoot otttotgood totoacagca gttototgtt ccctgagcct tcttgttgcc aggttgctat gagttgttgc ggtcttgagt taaactgtat 2400 gattacagtg ctggttcctt gggaagggac cactaatgac cttgaaatcc tggccccca 2460 aaaccactgt ttcactagcg tgttctcatt tgcacagtca gcatttcctg ggtttctgct 2520 gtgtgccggg caccgtgagg atctggattc ccagatcctg cctacactgg gtagcaaggg 2580 gaagggtttc cttggccagg cctcacagaa ggcttcctcc ttaaagaggc ctcctcgtta 2640 2700 atgagcagtt gggccaagtt ctcagaccaa tcttggccaa attgaaatct caggactgga aaggeteece atgtgetgte aagttteate eetetggtge taatgaaaae cateeatata 2760 2820 qcaqtcgttt cttttagtgc cccctgagta gcttctacag tacctcactg agccttttca 2880 acagetecat egteeecat egeettttet ateaagggae ttgggtteaa agaatgttge ccagggtcac agagctatct tgtgaaccca gggctgtctg actgcagaga taaatgcctg 2940 3000 agectgtace egetgeetee tetggtagag tggcaettea tetegeeeae etgeetacea tcctgctata gagcaggcta cggggctgga cctgagagta ggaataatgc attctacaag 3060 3120 taaaatttgt tttacaaatt ttacacatga agaagctgct attttctttc tttcttttt ttttttttt tttttcttt ttttgagaca gtcttgctct gccacccagg ctggagtggt 3180 gcagtgacat gacctcggct cactgcaacc tctgcctccc cagctcaagc gatcctcttg 3240 cctcagccct ccaagtagct ggggttatag gcacacacca ccacacccag ctaatttttg 3300 tatttttagt agagacaggg tttcatcatg ttggccagga tggtctgaaa ctcctggcct 3360 caagtgatcc gcccgccttg gcctcccaaa gtgctgggat taacaggcgt gagccaccat 3420 3480 gcccggccga gaagctggta ttgttaagag aaaagggaaa tgatgtagta gaaacctcaa 3540 acctaagcac tggcctgaac ttaggagacc cagggtcagg tccaagtctg ccttagaagg 3600 cccctctctt cccagctgtg tgactcaccc ctaatctctt aagcttgggt ttctagtctg tgcagtgagg caattgcact ggatgaattt ttttgggcca ttgttggaac attttatagc 3660 tgtgtgacct gggcctggct tagggccctt tggagtgaga caggaaggca catggcttgg 3720

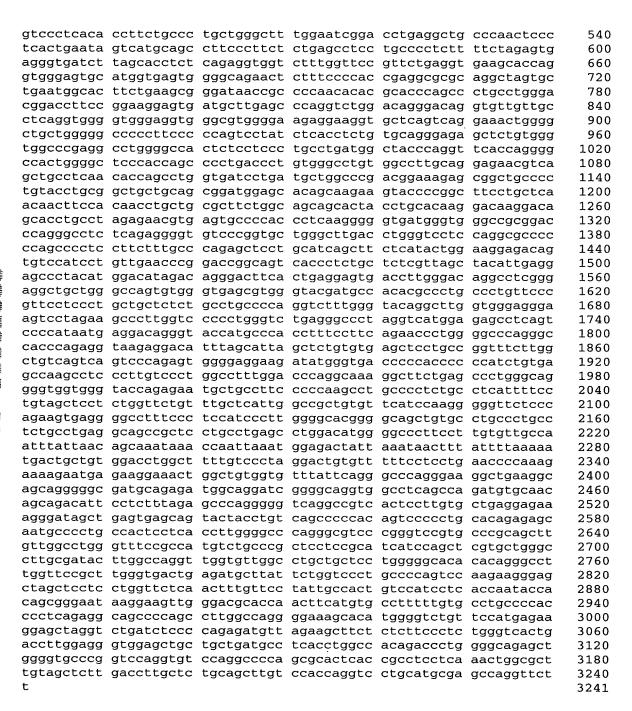


7440 7500 ctctagccac ttccccttgt aatctctgtg atggggatct catttcactc caggcaggga gggggctgcc cactgcatga gctagcagcc tgcttttcct tatttgctgt tttatcctat 7560 tgtaattttc atccacctat agaaacgtgc tcccgggcat ggtggctcac acccgtaatc 7620 7680 ccagcacttt gagaggccaa ggcgggcaga tcacttgagg tcagtggggt tagtttcccc cttggatacc tgtgtagcct cagccctgga ggcatttcta cagggcactt ttgcttttgt 7740 7800 ctggcagctg tcccagggcc agttttctta tttaatgtct tggccctact gccccagtcg 7860 tatgagecca gggtttetge tgetettggg agggeeceet teacceacca geageaceat 7920 ggcagagcca ggctccctgg gctggtgggt caggcctttc taacccttct ttcaccaagt gtacatgctc cccaggcttt actgggacct gacaccctgt ctagtccctg cagggcatta 7980 aaacccaagc cttagtgtga ctaggtcttg tctccacctc tccacactgc ccacagctgc 8040 tgagtatcag ttccttggct cactattcca aactcctcgg tcctttcttc atttctaact 8100 cctatggact tcccccgctc ctccccacac gtgttgtttt gtttgttggt tggttggatt 8160 8220 tttgggacag agtctccatc acccaggctg gagtgcagtc agtggtgcga tctcggctca 8280 ctgcaacttc cgcctcccag gttcaagtga ttctcctgcc tcagcctcct gagtagccag 8340 aattacaggc gcagcaacta tgcctggcta atttttgtat ttttagtaga gacagggttt 8400 gccatgttgc ccaggctggt ctcaagctcc tgacctcaag cgatctgccc gcctcggcct 8460 cccaaagtgc tgtgattaca ggtgtaacca ccacgccccg ccttattttt tattgagtgt gatggcatgt ttttagcagg aagggggcca cattagctta atctgctgtt gatcagatgt 8520 8580 ggaagtgaac agatggtttt ctaactaaag aaaagtcctc atggtacatg aggacagagg 8640 cttagagaag caggctccca ccagagtgtc tgcttgtgtt attttggaac cttgtggctg 8700 tggtcctaac attgaggctg tgcatgtgtt tcaggacatc accttgaaga tacagttttt 8760 gaggettett cagagettea gtgaceacea egagtaagta caagagtgte eetgeaagga 8820 gagttgttgg gctgtcttcg gaaggcctcg atctccttgt ctggtccctg acctcagctc 8880 gagaggaggc cctggagctg gtggaagccc actgtcccct cagtgttagc aggtgtgaca 8940 ctgcagtcgg acctcccgtc tttccagact tccttatggc aggcactgcc ccaagctttc 9000 ttctaaccct catagccacc ccaggaactg agtatggaag tcgttggccc cttactacct ttggaatcaa tggatttctc aacctactgc ccctctaaag caagagtgga cagcgtggct 9060 9120 attcccaggg gccggcagga acttcagaca ggcaaagccg actgcttact gagcagctgg 9180 aggattette cetecacaag gaggtgtget cecattttte ttgaaagaca ttetgegete atttattttt taaccttcga tggagaatgt acaaggaaaa ttactctctg ctgtaaggaa 9240 9300 aacagtgcag gaaggggtg actagcagct gacccttgac cttggcattg gggaggtgat gtggggacct tagtgaacaa gaatttcagt gagctcagct ccagccagct gcgtgtgcac 9360 aggaaactgg gcccactgtt gcataacttc tgattttttc tgccaagcaa aggcagaaat 9420 9480 taagatttat gtgaaaggtc ctgattttaa atgttggttt aaatatttta aaaaccttgc 9540 atttgagcta acagaacatg cctggagaca gctgtggccc cagggcacct ccatcatatg cacccatcct ctgtgagagg ttttccggct gaaagccata gaagggctcc aggaagcatg 9600 9660 ttaaccttct gaaaaatggc accacatatg ttatggaact gtgctgtttt ccctgaggaa 9720 gtgagtctct ggctttcatc agactcttca gtctgagtac tctgtgggat atcaggatga 9780 atgcaaacag ccatggcccc tgctctcatg aagggcagag tctgaaaaca gagacagttg ttcatccaag gattccaccg ttgagcatta gtgataagtg gagatggtat tcaggaggag 9840 aggaacgggg tctgtgagag acatttgaca gggtccagga ctggccagag gacactcagg 9900 aacteteece tgeagaagtg gettgeeage caagacetga agtgteaget tgtagtgaat 9960 tgagtgaaca ggcatgtgag agggtgtgtg ttctagccag aagcccctga acgagggaag 10020 10080 cgttgtgggt cacagtcaca gggtgttgtg ggtcacagtc acaggcctgg attttatata 10140 cagatggtcc acttagaatt tttcaacttc acaatggtac agaagtagaa ttttgaattt 10200 tgatcttttc ctgggctcat gataaacagt tcaatactct tgcaatgctg ggcactgagc 10260 tgcagctgca gctcagaatg tatttcaaga aaaatggtga ccagctacac gatcaccaag 10320 gtagacaacc agtactctgt gctgtgcctg ccgtgttgcc agtgattatg gccaactgta 10380 ggctgaagtc agtgttctga gcacattcca ggtaggctag gctaagctag gaggttcagt 10440 gggttagata tattaaatgt gttttctttc tttttctttt tttcaagacg gaatcttgct 10500 ctattgccca ggctggagtg cagtggcatg atcttggctc actgcaacct ccaccttctg 10560 ggttcaagca attctacctc agcctcctga gtagctagga ttataggcgt gtgccaccac 10620 gcccagctaa ttttttatat ttttagtaga gatggggttt cgccacgttg gccaggctgg 10680 tctcgaactc ctgacctcgt gatccacccg cctggacctt ccaaagtgct gggattacag 10740 acgtgaacca ccgcgcccgg cctcaatatg ttttcaactt aacggcattt tcaaatacga 10800 tgggtttatc aggacataac ctcctcctaa gtcaggaaat gtctgttcta aatgcagtgg 10860 gaagctgtgg aagtgttttc accgggagtg acaggatcag agtcctgatt ctgaagatca 10920 cttttggcac cgtgtgatga ctcagttcct gtgggatacc ttttagtaaa gggagctggt 10980 11040 gtcctgggaa cacaggaccc agcagtgaca ggcctggatg gcaagtcggg ggaagtgtca

cagttaacca ggcctctgtg tgatgtgtga.ccgtggtgct tggtgggact gctgcagcag ggccaggctt gagtgtgatt ggacctgttg aggtgttggt gcctttgaga aaacaagtgg 11160 11220 aaatgtaggc aaagagaaag gcccagagct gctgagggaa ggggccttgt cgatgaatgt ggcaggcagg ggtcggggat gggggtgggg ccagggagag attccactgc ctgagagccc 11280 11340 agagttccct cctgcaggtg ctggctggag tgagaggtgc tagaggaaag tgcctggtgg cttctcagat tctgtccaca ggaagtgggc aggagactcc ctacactagc ctggtgctga 11400 11460 cccagcagcc ccagttcctg tcctttacct cctccaaccc attttgtttc aggaacaagt 11520 acttgttact caacaaccag gagctgaatg aactcagtgc catctctctc aaggccaaca tccctgaggt ggaagctgtc ctcaacaccg acaggtgagt gcaggggtgc agcttttccc 11580 teageceate eeggetgeee aegtteeeeg ggggeteace ggtgageaca teeaggtatg 11640 cacgcgtgtc ctctctcaca tgcagctaca gtgtcctgag ggctcctgtg tgccaggcat 11700 tgtattcatg tcacctgcat tttctcattg gagcctcaca gcagccctag gaggggagcc 11760 11820 ccatcagtac ctgcacttga cagatgaggt gagcctcaga gaggtcacct gccagaagtc atgtgtgctc cgcactgccc caccgccttg tctcgtgcat tcagcccctt tgcttatgtg 11880 ctcctttctt gcctggtggc atctgcagcc aagcaggaca gacagaagcc tcttacctgc 11940 tgccaagtgt taggttgcat tacctgggtt aggtttgcct cacctggagc caggcagtgg 12000 ggggctagtc tcacaggcgt cagaatacag tggactttat ccaacaagag ccatgatttc 12060 ccaacctttt ttgtttgttt gttttgtttt gttttttaga cacaaggtct tgctctttct 12120 12180 ctcaggctgc agagcagtgg tgttatagct cactgcagcc acaaacttct gagctcaagt 12240 gattctcctg cctcagccgc ccgagtagct gggactacag gtgtgcgcca ccattcccag ctagtgtttt tactttttt ttgtagagat ggggtctcac tatgttgccc aggctggtct cgaactcctg gcctcaagtg agcctcccaa agtccaggga ttacaggtgt gaaccacctc 12360 tcctggcctc ccaatctttt ttttctaagg tagcagaact cttcattcaa ataaaattgt 12420 acccagtcct gccctgatgt ctgcagtgga tcacagcaga gctgctctgt ttgaagggcc 12480 cagacccctg cgtgcctggc cgtcttcctt cccccatgac ggggccagag tcatttcctc 12540 atctcctgcc tttgcttcat agactgggaa gctgaggctt ggagttgtgg acacttgccc 12600 12660 aaggccagct ggaagtgaac ctcaggcacg gagtacgctg ggcctcaccc tattggcaga 12720 gtctttcccc atctggcaga ctggcatgac ctgtttcaac acacttttgg tataaacagc 12780 tctcctctgg cagttctaag ccatgtctga ttctggatat gtttctggcc tgggaaggaa agctggcctg agatgtggtg ggaatgcact tggcagttta attctgtggc tgcaggggtc 12840 12900 tccggggctc tggacccagt tggagcagga aggcatcctg cagacttgga aatgtcccca 12960 tggtttttca ccgcctaagc cagcagaatg acccatcccc agggcccctg tcagcctctc 13020 agatetgtea ceaatatete tettetattt caggagtttg gtgtgtgatg ggaagagggg 13080 cttattaact cgtctgctgc aggtcatgaa gaaggagcca gcagagtcgt ctttcaggtg agtetgggga aaagtacetg cegattetge ggggetgeag agecaggtgt tteteaggag 13140 gttaggaata cctcctttag tcaccagcgt ccatgcctcc tgaagcacaa ttactgttgg 13200 ggagaggtgg tttgactgcc atcttgtgta gttttgactc gacaggtatg tgagagcttc 13260 ttctgcagcc cacagtgacc gagcattcac caagcacctg ttctgtgctg gtgccttatg 13320 ggtgggagag aactaggata cgggccctgc catgaattcc ctagagctgt gctgtttcaa 13380 tgcagtgtgg gaaggaatgg agccagggtt ggcccaggag ctatagcagc aaaggaaagc 13440 ctcttccgct gctagggctg ggggctgggt gaatacaggg agaccttctc tgaggtcctt 13500 agatacatct aagatgagtc ttgaagtcag tggacaggta gagttccatc agggccgggc 13560 gtgagctgtc aggaggcttc atgcccacat gggcctttgt cacttcagtg ccttgtccaa 13620 actecetyte gtggatacce getytyceet etygyteet egyteageat caaccactae 13680 ttccctaggc cagcccatcg tctgtgagcc cagtggcctg tctgcatgtg ttcgtccgct 13740 tcccacacac attcctggcc cctcaattgc acgtcctccc attcttgtga aagggcaagg 13800 cctagagtat gtttcacggg ggctcgcagg agccagccct tcgatcccag atgttaccct 13860 ttctgtgaca cagccccttc cagacagacc cagatagaag acttctccac tgagctggct 13920 ctctgtgagg atgggggcac tgctgtgtcc ccaggcccag gatgaagcct gatgcttggt 13980 agatgttcag taaatgttga gtacatgaaa aggcaacaaa catctcccaa ccccttggag aactgaacat gggccggaag agggcagcct tagccacctg agccagtatt tgggtcgcag gttttggcaa gctcgggctg tggagagttt cctccgaggg accacctcct atgcagacca 14160 gatgttcctg ctgaagcgag gcctcttgga ggtatgatct ggagcagcca gtgtcttggg 14220 14280 aggagcagag cagatctcgt gacttccaaa tgcctgtgca ggctgcctta gattttgccc 14340 tgggtttcca actgtgggtt ccccatgggt gcttacgggg tgacaggttt agagggtggc 14400 caggccatgc aggagggtga cagtttggtt acccagcaag gcattttgac cctgaagata 14460 ttttgtacta aaagttaatt ttcctttatt gaataatggt cttcagaaaa agtaaaactt 14520 14580 agagcagaat ggccaaagtt ataattggtc tttcagattt tttcatatgg acaagaaact gacccacgaa ttataaaatc catgtggaaa agaattgatc caaatcaatg taacttcaag 14640 aaaatgtaga aaactttata aaggagtaaa ttggctttat tctcttgatg aaaactcagt 14700







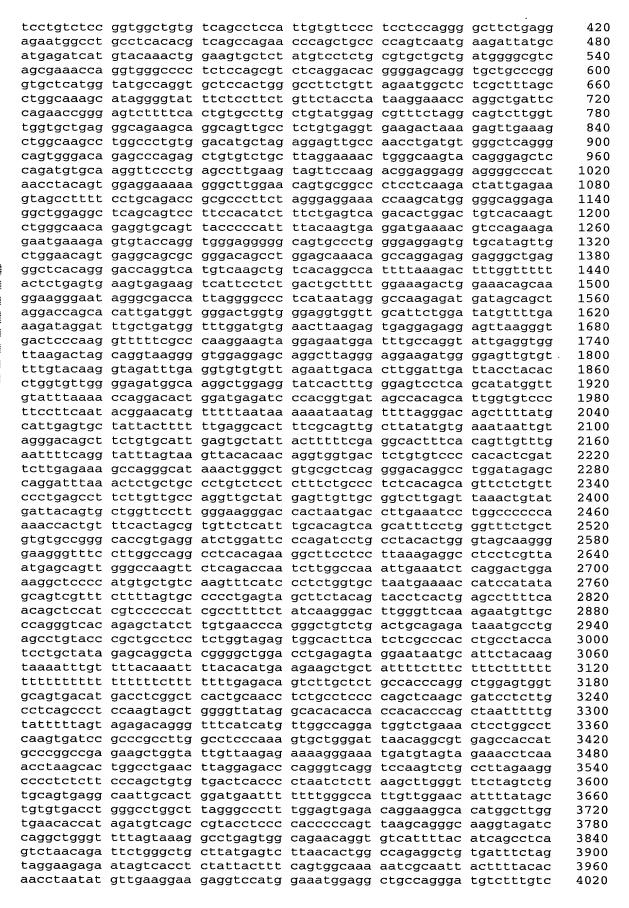
```
<210> 2160
<211> 20295
```

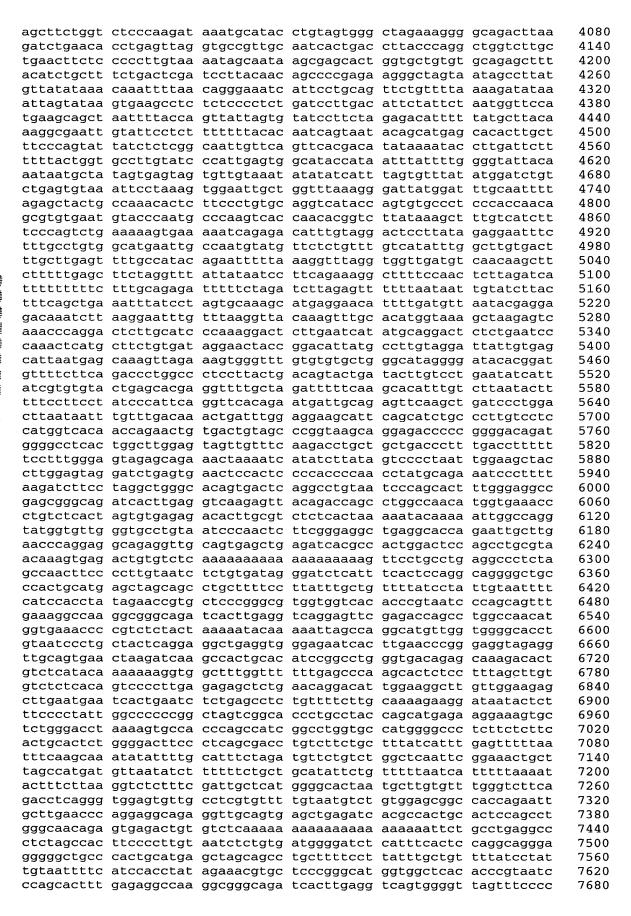
<212> DNA

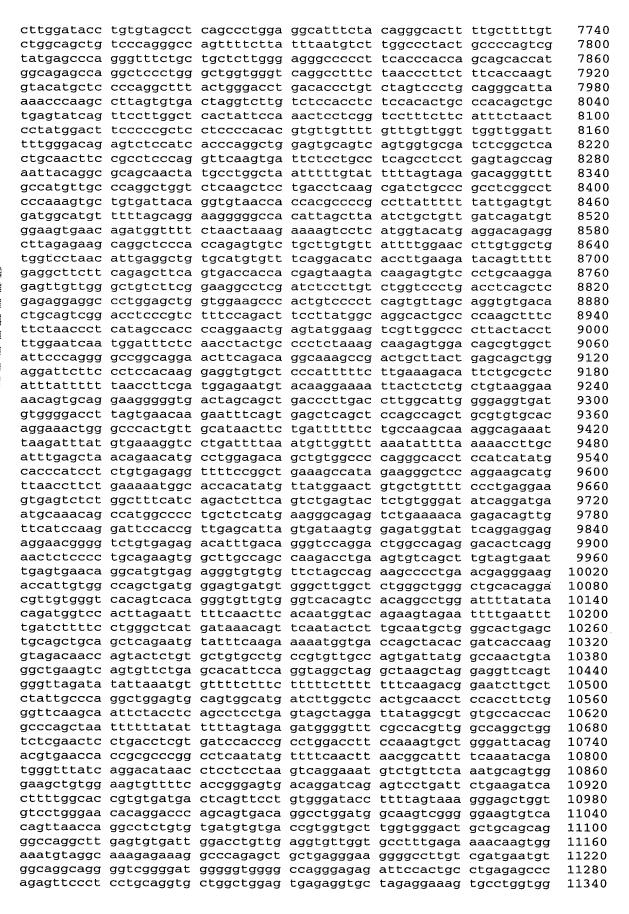
<213> Homo sapiens

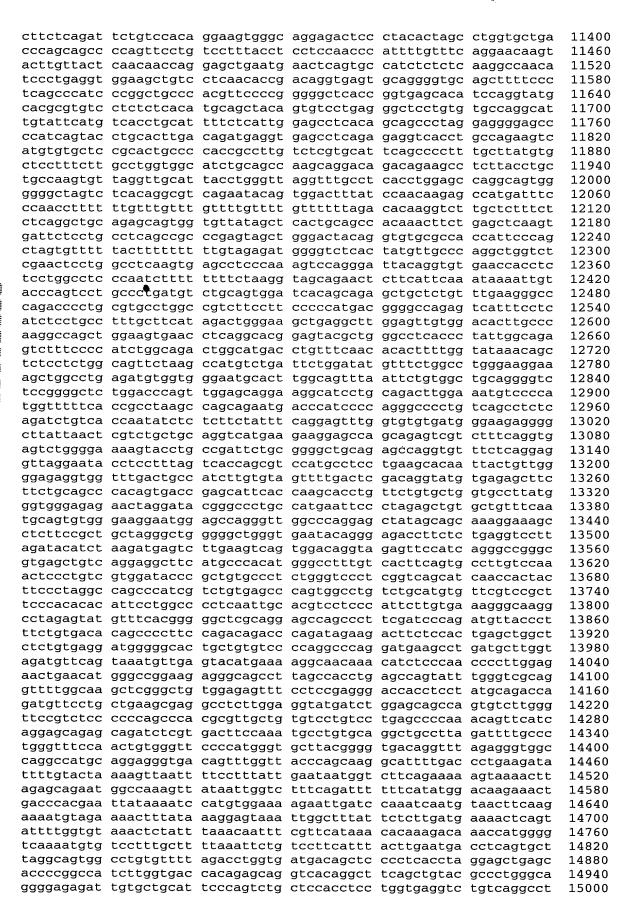
<400> 2160

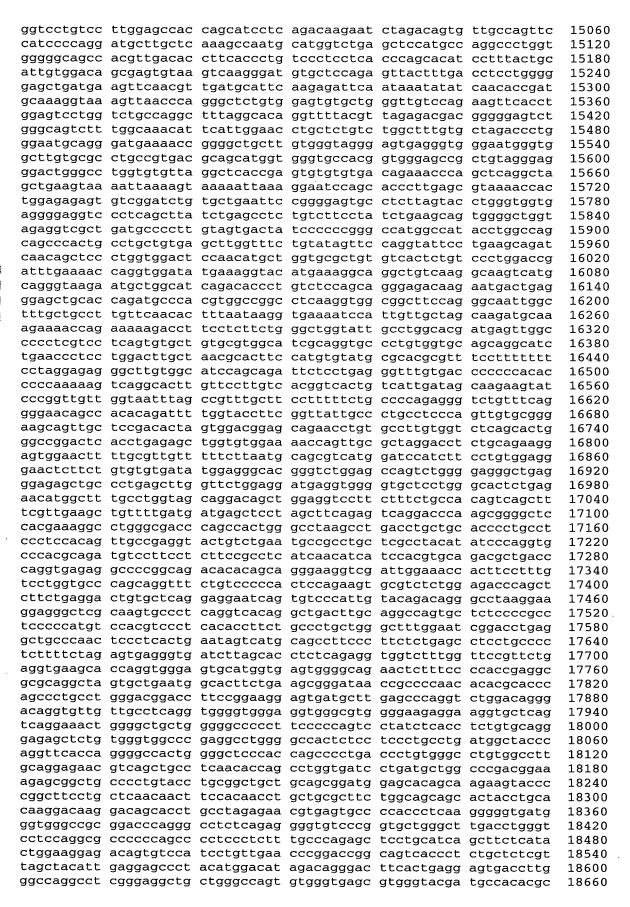
agggccattt gcgacttgaa gagcggtccc cataatttgc tgtcatacat ctgcctgggc 60
acttcctggg ggtctggttg gtggcaggag aagggcataa gcagggaggg atgggtcatg 120
ttactgtatt ggctgtgtcc gaatattttt actttatgtt aaagttgatg aggcacaact 180
attgcagagt ccattttcc gagtctctgc gctcacctgg ctcctgggat tgtggaggga 240
gttttgcagc tttcagagtc tgtgttttgg gctcatggcc cagccgaatg gccatgctac 300
aagtctgttc agagcaggtt cgaggggcag aaacgtgttt cctcacaagc tgtgactcaa 360















cctgccctgt	tcccgttcct	ccctgctgct	ctctgcctgc	cccaggtctt	tgggtacagg	18720
cttggtggga	gggaagtcct	agaagccctt	ggtccccctg	ggtctgaggg	ccctaggtca	18780
tggagagcct	cagtccccat	aatgaggaca	gggtaccatg	cccacctttc	cttcagaacc	18840
ctggggccca	gggccaccca	gaggtaagag	gacatttagc	attagctctg	tgtgagctcc	18900
tgccggtttc	ttggctgtca	gtcagtccca	gagtggggag	gaagatatgg	gtgaccccca	18960
cccccatct	gtgagccaag	cctcccttgt	ccctggcctt	tggacccagg	caaaggcttc	19020
tgagccctgg	gcaggggtgg	tgggtaccag	agaatgctgc	cttcccccaa	gcctgcccct	19080
ctgcctcatt	ttcctgtagc	tcctctggtt	ctgtttgctc	attggccgct	gtgttcatcc	19140
			tccctccatc			19200
gtgcctgccc	tgcctctgcc	tgaggcagcc	gctcctgcct	gagcctggac	atggggccct	19260
tccttgtgtt	gccaatttat	taacagcaaa	taaaccaatt	aaatggagac	tattaaataa	19320
			ggcttttgtc			19380
cctgaacccc	aaagaaaaga	atgagaagga	aactggctgt	ggtgtttatt	cagggcccag	19440
			gagatggcag			19500
gccagatgtg	caacagcaga	cattcctctt	tagagcccag	ggggtcaggc	cgtcactcct	19560
			gcagtactac			19620
			ctcaccttgg			19680
			gccatgtctg			19740
agctcgtgct	gggccttgcg	atacttggcc	aggttggtgt	tggcctgctg	ctcctggggg	19800
cacacacagg	gccttggttc	cgcttgggtg	actgagatgc	ttattctggt	ccctgcccca	19860
gtccaagaag	ggagctagct	cctcctggtt	ctcaactttg	ttcctattgc	cactgtccat	19920
cctcaccaat	accacagcgg	gaataaggaa	gttgggacgc	accaacttca	tgtgcctttt	19980
tgtgcctgcc	ccacccctca	gaggcagccc	cagccttggc	caggggaaag	cacatggggt	20040
ctgttccatg	agaaggagct	aggtctgatc	tccccagaga	tgttagaagc	ttctctcttc	20100
cctctgggtc	actgaccttg	gagggtggag	ctgctgctga	tgcctcacct	ggccacagac	20160
cctggggcag	agctggggtg	cccggtccag	gtgtccaggc	cccagcgcac	tcaccgcctc	20220
ctcaaactgg	cgcttgtagc	tcttgacctt	gctctgcagc	ttgtccacca	ggtcctgcat	20280
gcgagccagg	ttctt					20295
<210> 2161						
<211> 188						
<212> DNA						
<213> Homo	sapiens					

<400> 2161 tctgcgtgat agttcttcag gttcacttca cagattagct gacacttaac tgttctggaa 60 gctgggccaa ggagtgctaa catggaaatt gagtaactat agttttttgc ccaaggtaca 120 ggagaataaa tatgagtaga tagaatctct taaattaaaa atttctccag taaatttttc 180 ctaagtct 188